

Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Kit Ben. Hydrocarbon C6-C16 251C

1. Identification of the material and supplier

Names

Product name	: Kit Ben. Hydrocarbon C6-C16 251C
Part No. (Chemical Kit)	: CP8324
Part No.	: Benzene Not available.
	Toluene SI-A-2397
	o-Xylene SI-A-2398
	m-Xylene SI-A-2399
	p-Xylene SI-A-2400
	Ethylbenzene SI-A-2401
	Cumene SI-A-2402
	1,3,5-Trimethylbenzene SI-A-2403
	4-Isopropyltoluene (p-Cymene) SI-A-2404
	Propyl benzene SI-A-2405
	n-Butyl benzene SI-A-2406
	n-Hexylbenzene SI-A-2407
	n-Octylbenzene SI-A-2408
	n-Decylbenzene SI-A-2409

ADG : Not regulated as Dangerous Goods according to the ADG Code

Supplier

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number : CHEMTREC®: +(44)-870-8200418

Uses

Area of application	: Benzene	Industrial applications, Professional applications.
	Toluene	Industrial applications, Professional applications.
	o-Xylene	Industrial applications, Professional applications.
	m-Xylene	Industrial applications, Professional applications.
	p-Xylene	Industrial applications, Professional applications.
	Ethylbenzene	Industrial applications, Professional applications.
	Cumene	Industrial applications, Professional applications.
	1,3,5-Trimethylbenzene	Industrial applications, Professional applications.
	4-Isopropyltoluene (p-Cymene)	Industrial applications, Professional applications.
	Propyl benzene	Industrial applications, Professional applications.
	n-Butyl benzene	Industrial applications, Professional applications.
	n-Hexylbenzene	Industrial applications, Professional applications.
	n-Octylbenzene	Industrial applications, Professional applications.
	n-Decylbenzene	Industrial applications, Professional applications.

1 . Identification of the material and supplier

applications.

Material uses

: Analytical chemistry.

Benzene	1 ml
Toluene	1 ml
o-Xylene	1 ml
m-Xylene	1 ml
p-Xylene	1 ml
Ethylbenzene	1 ml
Cumene	1 ml
1,3,5-Trimethylbenzene	1 ml
4-Isopropyltoluene (p-Cymene)	1 ml
Propyl benzene	1 ml
n-Butyl benzene	1 ml
n-Hexylbenzene	1 ml
n-Octylbenzene	1 ml
n-Decylbenzene	1 ml

2 . Hazards identification

Classification

Benzene	F; R11 Carc. Cat. 1; R45 Muta. Cat. 2; R46 T; R48/23/24/25 Xn; R65 Xi; R36/38
Toluene	F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67
o-Xylene	R10 Xn; R20/21 Xi; R38
m-Xylene	R10 Xn; R20/21 Xi; R38
p-Xylene	R10 Xn; R20/21, R65 Xi; R38
Ethylbenzene	F; R11 Xn; R20, R65
Cumene	R10 Xi; R37 N; R51/53
1,3,5-Trimethylbenzene	R10 Xi; R37 N; R51/53
4-Isopropyltoluene (p-Cymene)	R10 Xn; R22, R65 Xi; R36/37/38 N; R51/53
Propyl benzene	R10 Xn; R65 Xi; R37 N; R51/53
n-Butyl benzene	N; R50/53
n-Hexylbenzene	Xi; R36/37/38
n-Octylbenzene	Not regulated.
n-Decylbenzene	Not regulated.

2 . Hazards identification

Risk phrases	: Benzene	R11- Highly flammable. R45- May cause cancer. R46- May cause heritable genetic damage. R48/23/24/25- Also toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R65- Also harmful: may cause lung damage if swallowed. R36/38- Irritating to eyes and skin.
	Toluene	R11- Highly flammable. R63- Possible risk of harm to the unborn child. R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation. R65- Harmful: may cause lung damage if swallowed. R38- Irritating to skin. R67- Vapours may cause drowsiness and dizziness.
	o-Xylene	R10- Flammable. R20/21- Harmful by inhalation and in contact with skin.
	m-Xylene	R38- Irritating to skin. R10- Flammable. R20/21- Harmful by inhalation and in contact with skin.
	p-Xylene	R38- Irritating to skin. R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R65- Harmful: may cause lung damage if swallowed.
	Ethylbenzene	R38- Irritating to skin. R11- Highly flammable. R20- Harmful by inhalation. R65- Harmful: may cause lung damage if swallowed.
	Cumene	R10- Flammable. R37- Irritating to respiratory system. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	1,3,5-Trimethylbenzene	R10- Flammable. R37- Irritating to respiratory system. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	4-Isopropyltoluene (p-Cymene)	R10- Flammable. R22- Harmful if swallowed. R65- Harmful: may cause lung damage if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	Propyl benzene	R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R37- Irritating to respiratory system. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2 . Hazards identification

	n-Butyl benzene	R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	n-Hexylbenzene	R36/37/38- Irritating to eyes, respiratory system and skin.
	n-Octylbenzene	Not classified.
	n-Decylbenzene	Not classified.
Safety phrases	: Benzene	S53- Avoid exposure - obtain special instructions before use. S36- Wear suitable protective clothing. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	Toluene	S36/37- Wear suitable protective clothing and gloves.
	o-Xylene	S36/37- Wear suitable protective clothing and gloves.
	m-Xylene	S36/37- Wear suitable protective clothing and gloves.
	p-Xylene	S36/37- Wear suitable protective clothing and gloves.
	Ethylbenzene	S36- Wear suitable protective clothing.
	Cumene	S36- Wear suitable protective clothing. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
	1,3,5-Trimethylbenzene	S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
	4-Isopropyltoluene (p-Cymene)	S36- Wear suitable protective clothing. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
	Propyl benzene	S36- Wear suitable protective clothing. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
	n-Butyl benzene	S36- Wear suitable protective clothing. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
	n-Hexylbenzene	S36- Wear suitable protective clothing.
	n-Octylbenzene	S36- Wear suitable protective clothing.
	n-Decylbenzene	S36- Wear suitable protective clothing.
Statement of hazardous/ dangerous nature	: Benzene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	Toluene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	o-Xylene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	m-Xylene	HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
	p-Xylene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	Ethylbenzene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	Cumene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	1,3,5-Trimethylbenzene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	4-Isopropyltoluene (p-Cymene)	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	Propyl benzene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	n-Butyl benzene	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	n-Hexylbenzene	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
	n-Octylbenzene	NON-HAZARDOUS SUBSTANCE. NON-

2 . Hazards identification

n-Decylbenzene

DANGEROUS GOODS.
NON-HAZARDOUS SUBSTANCE. NON-
DANGEROUS GOODS.

3 . Composition/information on ingredients

Mixture	:	Benzene	Yes.
		Toluene	Yes.
		o-Xylene	Yes.
		m-Xylene	Yes.
		p-Xylene	Yes.
		Ethylbenzene	Yes.
		Cumene	Yes.
		1,3,5-Trimethylbenzene	Yes.
		4-Isopropyltoluene (p-Cymene)	Yes.
		Propyl benzene	Yes.
		n-Butyl benzene	Yes.
		n-Hexylbenzene	Yes.
		n-Octylbenzene	Yes.
		n-Decylbenzene	Yes.

Ingredient name	CAS number	Concentration
Benzene Benzene	71-43-2	>60
Toluene Toluene	108-88-3	>60
o-Xylene o-Xylene	95-47-6	>60
m-Xylene m-Xylene	108-38-3	>60
p-Xylene p-Xylene	106-42-3	>60
Ethylbenzene Ethylbenzene	100-41-4	>60
Cumene Cumene	98-82-8	>60
1,3,5-Trimethylbenzene Mesitylene	108-67-8	>60
4-Isopropyltoluene (p-Cymene) p-Cymene	99-87-6	>60
Propyl benzene Propylbenzene	103-65-1	>60
n-Hexylbenzene Hexylbenzene	1077-16-3	>60

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First-aid measures

Inhalation

: Benzene

Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Toluene

Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

o-Xylene

Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

m-Xylene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

p-Xylene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It

4 . First-aid measures

Ethylbenzene

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Cumene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

1,3,5-Trimethylbenzene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4-Isopropyltoluene (p-Cymene)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Propyl benzene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is

4 . First-aid measures

n-Butyl benzene

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

n-Hexylbenzene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

n-Octylbenzene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

n-Decylbenzene

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion

: Benzene

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Toluene

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a

4 . First-aid measures

o-Xylene

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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m-Xylene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

p-Xylene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

4 . First-aid measures

Ethylbenzene

collar, tie, belt or waistband.
 Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Cumene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

1,3,5-Trimethylbenzene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4-Isopropyltoluene (p-Cymene)

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by

4 . First-aid measures

Propyl benzene

mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

n-Butyl benzene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

n-Hexylbenzene

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

n-Octylbenzene

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4 . First-aid measures

	n-Decylbenzene	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Skin contact	: Benzene	Get medical attention immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Toluene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	o-Xylene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	m-Xylene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	p-Xylene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Ethylbenzene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Cumene	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	1,3,5-Trimethylbenzene	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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4-Isopropyltoluene (p-Cymene)	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Propyl benzene	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
n-Butyl benzene	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
n-Hexylbenzene	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
n-Octylbenzene	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
n-Decylbenzene	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	
: Benzene	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.
Toluene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
o-Xylene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
m-Xylene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
p-Xylene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Ethylbenzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Cumene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
1,3,5-Trimethylbenzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

4 . First-aid measures

		Continue to rinse for at least 10 minutes. Get medical attention.
	4-Isopropyltoluene (p-Cymene)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Propyl benzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	n-Butyl benzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	n-Hexylbenzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	n-Octylbenzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	n-Decylbenzene	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Protection of first-aiders	: Benzene	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Toluene	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	o-Xylene	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	m-Xylene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	p-Xylene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Ethylbenzene	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should

4 . First-aid measures

		wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Cumene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	1,3,5-Trimethylbenzene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	4-Isopropyltoluene (p-Cymene)	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Propyl benzene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	n-Butyl benzene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	n-Hexylbenzene	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	n-Octylbenzene	No action shall be taken involving any personal risk or without suitable training.
	n-Decylbenzene	No action shall be taken involving any personal risk or without suitable training.
Advice to doctor	: Benzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Toluene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	o-Xylene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	m-Xylene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	p-Xylene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ethylbenzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Cumene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	1,3,5-Trimethylbenzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	4-Isopropyltoluene (p-Cymene)	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Propyl benzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	n-Butyl benzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately

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n-Hexylbenzene	if large quantities have been ingested or inhaled. No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
n-Octylbenzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
n-Decylbenzene	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Extinguishing media

Suitable

: Benzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
Toluene	Use dry chemical, CO ₂ , water spray (fog) or foam.
o-Xylene	Use dry chemical, CO ₂ , water spray (fog) or foam.
m-Xylene	Use dry chemical, CO ₂ , water spray (fog) or foam.
p-Xylene	Use dry chemical, CO ₂ , water spray (fog) or foam.
Ethylbenzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
Cumene	Use dry chemical, CO ₂ , water spray (fog) or foam.
1,3,5-Trimethylbenzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
4-Isopropyltoluene (p-Cymene)	Use dry chemical, CO ₂ , water spray (fog) or foam.
Propyl benzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
n-Butyl benzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
n-Hexylbenzene	Use dry chemical, CO ₂ , water spray (fog) or foam.
n-Octylbenzene	Use an extinguishing agent suitable for the surrounding fire.
n-Decylbenzene	Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: Benzene	Do not use water jet.
Toluene	Do not use water jet.
o-Xylene	Do not use water jet.
m-Xylene	Do not use water jet.
p-Xylene	Do not use water jet.
Ethylbenzene	Do not use water jet.
Cumene	Do not use water jet.
1,3,5-Trimethylbenzene	Do not use water jet.
4-Isopropyltoluene (p-Cymene)	Do not use water jet.
Propyl benzene	Do not use water jet.
n-Butyl benzene	Do not use water jet.
n-Hexylbenzene	Do not use water jet.
n-Octylbenzene	None known.
n-Decylbenzene	None known.

5 . Fire-fighting measures

Special exposure hazards : Benzene

	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Toluene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
o-Xylene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
m-Xylene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
p-Xylene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Ethylbenzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Cumene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
1,3,5-Trimethylbenzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated

5 . Fire-fighting measures

4-Isopropyltoluene (p-Cymene)	with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Propyl benzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
n-Butyl benzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
n-Hexylbenzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
n-Octylbenzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
n-Decylbenzene	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Benzene	Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Toluene	Highly flammable liquid. In a fire or if heated, a

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	pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
o-Xylene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
m-Xylene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
p-Xylene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Ethylbenzene	Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Cumene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
1,3,5-Trimethylbenzene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
4-Isopropyltoluene (p-Cymene)	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container

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		may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	Propyl benzene	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	n-Butyl benzene	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
	n-Hexylbenzene	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
	n-Octylbenzene	In a fire or if heated, a pressure increase will occur and the container may burst.
	n-Decylbenzene	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Benzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Toluene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	o-Xylene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	m-Xylene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	p-Xylene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ethylbenzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Cumene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	1,3,5-Trimethylbenzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	4-Isopropyltoluene (p-Cymene)	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5 . Fire-fighting measures

Propyl benzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
n-Butyl benzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
n-Hexylbenzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
n-Octylbenzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide
n-Decylbenzene	Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions	: Benzene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	Toluene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	o-Xylene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	m-Xylene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all

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p-Xylene

ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Ethylbenzene

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Cumene

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

1,3,5-Trimethylbenzene

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

4-Isopropyltoluene (p-Cymene)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Propyl benzene

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and

6 . Accidental release measures

	unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
n-Butyl benzene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
n-Hexylbenzene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
n-Octylbenzene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
n-Decylbenzene	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions : Benzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Toluene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
o-Xylene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
m-Xylene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

6 . Accidental release measures

p-Xylene	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ethylbenzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cumene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
1,3,5-Trimethylbenzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
4-Isopropyltoluene (p-Cymene)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Propyl benzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
n-Butyl benzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
n-Hexylbenzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
n-Octylbenzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
n-Decylbenzene	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6 . Accidental release measures

Methods for cleaning up	:	Benzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Toluene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		o-Xylene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		m-Xylene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		p-Xylene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Ethylbenzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		Cumene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		1,3,5-Trimethylbenzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6 . Accidental release measures

4-Isopropyltoluene (p-Cymene)	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Propyl benzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
n-Butyl benzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
n-Hexylbenzene	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
n-Octylbenzene	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
n-Decylbenzene	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling

: Benzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly

7 . Handling and storage

Toluene

closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

o-Xylene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and

7 . Handling and storage

m-Xylene

bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

p-Xylene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Ethylbenzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

7 . Handling and storage

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Cumene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/ safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

1,3,5-Trimethylbenzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/

7 . Handling and storage

4-Isopropyltoluene (p-Cymene)

safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Propyl benzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible

7 . Handling and storage

n-Butyl benzene

material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing.

Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/ safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

n-Hexylbenzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing.

Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or

7 . Handling and storage

n-Octylbenzene

explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

n-Decylbenzene

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: Benzene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Toluene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

o-Xylene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

m-Xylene

Store in accordance with local regulations.

7 . Handling and storage

p-Xylene

Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Ethylbenzene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Cumene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

1,3,5-Trimethylbenzene

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been

7 . Handling and storage

	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
4-Isopropyltoluene (p-Cymene)	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Propyl benzene	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
n-Butyl benzene	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
n-Hexylbenzene	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
n-Octylbenzene	Store between the following temperatures: 15 to 25°C (59 to 77°F). Store in accordance with local regulations. Store in original container

7 . Handling and storage

n-Decylbenzene

protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Combustible liquid

: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	Not applicable. Not applicable. Combustible liquid Class C1 (AS 1940). Not applicable. Not applicable.
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8 . Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Benzene Benzene	Safe Work Australia (Australia, 7/2012). TWA: 3.2 mg/m ³ 8 hours. TWA: 1 ppm 8 hours.
Toluene Toluene	Safe Work Australia (Australia, 7/2012). Absorbed through skin. STEL: 574 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 191 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
o-Xylene o-Xylene	Safe Work Australia (Australia, 7/2012). STEL: 655 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 350 mg/m ³ 8 hours. TWA: 80 ppm 8 hours.
m-Xylene m-Xylene	Safe Work Australia (Australia, 7/2012). STEL: 655 mg/m ³ 15 minutes.

8 . Exposure controls/personal protection

<p>p-Xylene p-Xylene</p>	<p>STEL: 150 ppm 15 minutes. TWA: 350 mg/m³ 8 hours. TWA: 80 ppm 8 hours.</p> <p>Safe Work Australia (Australia, 7/2012). STEL: 655 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 350 mg/m³ 8 hours. TWA: 80 ppm 8 hours.</p>
<p>Ethylbenzene Ethylbenzene</p>	<p>Safe Work Australia (Australia, 7/2012). STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours.</p>
<p>Cumene Cumene</p>	<p>Safe Work Australia (Australia, 7/2012). Absorbed through skin. STEL: 375 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 125 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>
<p>1,3,5-Trimethylbenzene Mesitylene</p>	<p>Safe Work Australia (Australia, 7/2012). TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>

No additional exposure standard allocated for other ingredients/components covered by the MSDS other than those listed in the table above.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

8 . Exposure controls/personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Benzene Liquid.
 Toluene Liquid. [Clear.]
 o-Xylene Liquid. [Clear.]
 m-Xylene Liquid. [Clear.]
 p-Xylene Liquid. [Clear.]
 Ethylbenzene Liquid. [Clear.]
 Cumene Liquid. [Clear.]
 1,3,5-Trimethylbenzene Liquid. [Clear.]
 4-Isopropyltoluene (p-Cymene) Liquid. [Clear.]
 Propyl benzene Liquid. [Clear.]
 n-Butyl benzene Liquid. [Clear.]
 n-Hexylbenzene Liquid. [Clear.]
 n-Octylbenzene Liquid. [Clear.]
 n-Decylbenzene Liquid. [Clear.]
- Colour** : Benzene Colourless to light yellow.
 Toluene Colourless.
 o-Xylene Colourless.
 m-Xylene Colourless.
 p-Xylene Colourless.
 Ethylbenzene Colourless.
 Cumene Colourless.
 1,3,5-Trimethylbenzene Colourless.
 4-Isopropyltoluene (p-Cymene) Colourless.
 Propyl benzene Colourless.
 n-Butyl benzene Colourless.
 n-Hexylbenzene Colourless.
 n-Octylbenzene Colourless.
 n-Decylbenzene Colourless.
- Odour** : Benzene Characteristic.
 Toluene Aromatic. [Strong]
 o-Xylene Aromatic.
 m-Xylene Aromatic.
 p-Xylene Aromatic.
 Ethylbenzene Aromatic.
 Cumene Aromatic.
 1,3,5-Trimethylbenzene Not available.
 4-Isopropyltoluene (p-Cymene) Not available.
 Propyl benzene Not available.
 n-Butyl benzene Not available.
 n-Hexylbenzene Not available.
 n-Octylbenzene Mild.
 n-Decylbenzene Not available.
- Odour threshold** : Benzene 2 ppm
 Toluene 6.7 ppm
 o-Xylene 5.4 ppm
 m-Xylene 0.6 ppm
 p-Xylene 2.1 ppm
 Ethylbenzene Not available.
 Cumene 1.2 ppm

9 . Physical and chemical properties

	1,3,5-Trimethylbenzene	0.23 ppm
	4-Isopropyltoluene (p-Cymene)	Not available.
	Propyl benzene	Not available.
	n-Butyl benzene	Not available.
	n-Hexylbenzene	Not available.
	n-Octylbenzene	Not available.
	n-Decylbenzene	Not available.
Boiling point	: Benzene	80°C (176°F)
	Toluene	110°C (230°F)
	o-Xylene	144°C (291.2°F)
	m-Xylene	139°C (282.2°F)
	p-Xylene	138°C (280.4°F)
	Ethylbenzene	136.2°C (277.2°F)
	Cumene	152°C (305.6°F)
	1,3,5-Trimethylbenzene	165°C (329°F)
	4-Isopropyltoluene (p-Cymene)	177°C (350.6°F)
	Propyl benzene	157 to 159°C (314.6 to 318.2°F)
	n-Butyl benzene	182 to 183°C (359.6 to 361.4°F)
	n-Hexylbenzene	226°C (438.8°F)
	n-Octylbenzene	264 to 268°C (507.2 to 514.4°F)
	n-Decylbenzene	293°C (559.4°F)
Melting point	: Benzene	6°C (42.8°F)
	Toluene	-93°C (-135.4°F)
	o-Xylene	-25°C (-13°F)
	m-Xylene	-48°C (-54.4°F)
	p-Xylene	12 to 15°C (53.6 to 59°F)
	Ethylbenzene	-94.9°C (-138.8°F)
	Cumene	-96°C (-140.8°F)
	1,3,5-Trimethylbenzene	-45°C (-49°F)
	4-Isopropyltoluene (p-Cymene)	-68°C (-90.4°F)
	Propyl benzene	-99°C (-146.2°F)
	n-Butyl benzene	-88°C (-126.4°F)
	n-Hexylbenzene	-61°C (-77.8°F)
	n-Octylbenzene	-36°C (-32.8°F)
	n-Decylbenzene	-14°C (6.8°F)
Vapour pressure	: Benzene	10 kPa (75 mm Hg) [room temperature]
	Toluene	2.9 kPa (21.9 mm Hg) [room temperature]
	o-Xylene	0.93 kPa (7 mm Hg) [room temperature]
	m-Xylene	1.2 kPa (9 mm Hg) [room temperature]
	p-Xylene	1.2 kPa (9 mm Hg) [room temperature]
	Ethylbenzene	1.3 kPa (10 mm Hg) [room temperature]
	Cumene	0.43 kPa (3.2025 mm Hg) [room temperature]
	1,3,5-Trimethylbenzene	0.25 kPa (1.86 mm Hg) [room temperature]
	4-Isopropyltoluene (p-Cymene)	0.2 kPa (1.5 mm Hg) [room temperature]
	Propyl benzene	0.27 kPa (2 mm Hg) [room temperature]
	n-Butyl benzene	0.14 kPa (1.02 mm Hg) [room temperature]
	n-Hexylbenzene	Not available.
	n-Octylbenzene	<0.0015 kPa (<0.01131 mm Hg) [room temperature]
	n-Decylbenzene	0.00017 kPa (0.00128 mm Hg) [room temperature]
Relative density	: Benzene	0.88
	Toluene	0.866 [Water = 1]
	o-Xylene	0.88 [Water = 1]
	m-Xylene	0.86 [Water = 1]
	p-Xylene	0.86 [Water = 1]
	Ethylbenzene	0.867 [Water = 1]
	Cumene	0.864 [Water = 1]
	1,3,5-Trimethylbenzene	0.864 [Water = 1]
	4-Isopropyltoluene (p-Cymene)	0.857 [Water = 1]
	Propyl benzene	0.862 [Water = 1]
	n-Butyl benzene	0.86
	n-Hexylbenzene	0.857 [Water = 1]

9 . Physical and chemical properties

	n-Octylbenzene	0.856 [Water = 1]
	n-Decylbenzene	0.856 [Water = 1]
Flash point	: Benzene	Closed cup: -11°C (12.2°F)
	Toluene	Closed cup: 4°C (39.2°F) [Setaflash.]
	o-Xylene	Closed cup: 32°C (89.6°F)
	m-Xylene	Closed cup: 25°C (77°F)
	p-Xylene	Closed cup: 25°C (77°F) [Setaflash.]
	Ethylbenzene	Closed cup: 15°C (59°F)
	Cumene	Closed cup: 36°C (96.8°F)
	1,3,5-Trimethylbenzene	Closed cup: 50°C (122°F)
	4-Isopropyltoluene (p-Cymene)	Closed cup: 46.85°C (116.3°F) [Setaflash.] Open cup: 47°C (116.6°F)
	Propyl benzene	Closed cup: 30°C (86°F) [Setaflash.]
	n-Butyl benzene	Closed cup: 59°C (138.2°F) Open cup: 71°C (159.8°F)
	n-Hexylbenzene	Closed cup: 83°C (181.4°F)
	n-Octylbenzene	Closed cup: 107°C (224.6°F)
	n-Decylbenzene	Closed cup: 110°C (230°F)
Flammable limits	: Benzene	Lower: 1.2% Upper: 8%
	Toluene	Lower: 1.3% Upper: 7.1%
	o-Xylene	Lower: 1.1% Upper: 7%
	m-Xylene	Lower: 1.1% Upper: 7%
	p-Xylene	Lower: 1.1% Upper: 7%
	Ethylbenzene	Lower: 1% Upper: 6.7%
	Cumene	Lower: 0.9% Upper: 6.5%
	1,3,5-Trimethylbenzene	Lower: 0.88% Upper: 5.6%
	4-Isopropyltoluene (p-Cymene)	Lower: 0.7% Upper: 5.6%
	Propyl benzene	Lower: 0.8% Upper: 6%
	n-Butyl benzene	Lower: 0.8% Upper: 5.8%
	n-Hexylbenzene	Lower: 0.7% Upper: 5%
	n-Octylbenzene	Lower: 0.6% Upper: 4.9%
	n-Decylbenzene	Lower: 0.5% Upper: 6.97%
Vapour density	: Benzene	2.7 [Air = 1]
	Toluene	3.2 [Air = 1]
	o-Xylene	3.7 [Air = 1]
	m-Xylene	3.7 [Air = 1]
	p-Xylene	3.7 [Air = 1]
	Ethylbenzene	3.7 [Air = 1]
	Cumene	4.1 [Air = 1]
	1,3,5-Trimethylbenzene	1.01 [Air = 1]
	4-Isopropyltoluene (p-Cymene)	4.62 [Air = 1]
	Propyl benzene	4.14 [Air = 1]
	n-Butyl benzene	4.6 [Air = 1]
	n-Hexylbenzene	Not available.
	n-Octylbenzene	Not available.
	n-Decylbenzene	Not available.

9 . Physical and chemical properties

pH	:	Benzene	Not available.
		Toluene	Not available.
		o-Xylene	Not available.
		m-Xylene	Not available.
		p-Xylene	Not available.
		Ethylbenzene	Not available.
		Cumene	Not available.
		1,3,5-Trimethylbenzene	Not available.
		4-Isopropyltoluene (p-Cymene)	Not available.
		Propyl benzene	Not available.
		n-Butyl benzene	Not available.
		n-Hexylbenzene	Not available.
		n-Octylbenzene	Not available.
		n-Decylbenzene	Not available.
Viscosity	:	Benzene	Dynamic (room temperature): 0.604 mPa·s (0.604 cP)
		Toluene	Not available.
		o-Xylene	Not available.
		m-Xylene	Not available.
		p-Xylene	Not available.
		Ethylbenzene	Not available.
		Cumene	Dynamic (room temperature): 737 mPa·s (737 cP)
		1,3,5-Trimethylbenzene	Not available.
		4-Isopropyltoluene (p-Cymene)	Not available.
		Propyl benzene	Not available.
		n-Butyl benzene	Dynamic (room temperature): 0.95 mPa·s (0.95 cP)
		n-Hexylbenzene	Not available.
		n-Octylbenzene	Not available.
		n-Decylbenzene	Kinematic (room temperature): 0.00015327 cm ² /s (0.015327 cSt)
Auto-ignition temperature	:	Benzene	498°C (928.4°F)
		Toluene	480°C (896°F)
		o-Xylene	463°C (865.4°F)
		m-Xylene	527°C (980.6°F)
		p-Xylene	529°C (984.2°F)
		Ethylbenzene	432°C (809.6°F)
		Cumene	425°C (797°F)
		1,3,5-Trimethylbenzene	559°C (1038.2°F)
		4-Isopropyltoluene (p-Cymene)	436.11°C (817°F)
		Propyl benzene	450°C (842°F)
		n-Butyl benzene	412°C (773.6°F)
		n-Hexylbenzene	Not available.
		n-Octylbenzene	Not available.
		n-Decylbenzene	Not available.
Evaporation rate	:	Benzene	3.5 (butyl acetate = 1)
		Toluene	2.2 (butyl acetate = 1)
		o-Xylene	0.54 (butyl acetate = 1)
		m-Xylene	0.7 (butyl acetate = 1)
		p-Xylene	0.7 (butyl acetate = 1)
		Ethylbenzene	0.84 (butyl acetate = 1)
		Cumene	0.43 (butyl acetate = 1)
		1,3,5-Trimethylbenzene	0.224 (butyl acetate = 1)
		4-Isopropyltoluene (p-Cymene)	0.14 (butyl acetate = 1)
		Propyl benzene	Not available.
		n-Butyl benzene	Not available.
		n-Hexylbenzene	Not available.
		n-Octylbenzene	Not available.
		n-Decylbenzene	Not available.

9 . Physical and chemical properties

Solubility	: Benzene	Easily soluble in the following materials: methanol, diethyl ether and acetone. Insoluble in the following materials: cold water and hot water.
	Toluene	Easily soluble in the following materials: methanol, diethyl ether and acetone. Insoluble in the following materials: cold water and hot water.
	o-Xylene	Insoluble in the following materials: cold water and hot water.
	m-Xylene	Insoluble in the following materials: cold water and hot water.
	p-Xylene	Insoluble in the following materials: cold water and hot water.
	Ethylbenzene	Insoluble in the following materials: cold water and hot water.
	Cumene	Soluble in the following materials: methanol, diethyl ether, n-octanol and acetone. Insoluble in the following materials: cold water and hot water.
	1,3,5-Trimethylbenzene	Easily soluble in the following materials: methanol, diethyl ether and acetone.
	4-Isopropyltoluene (p-Cymene)	Easily soluble in the following materials: methanol, diethyl ether and acetone.
	Propyl benzene	Not available.
	n-Butyl benzene	Easily soluble in the following materials: methanol and diethyl ether. Insoluble in the following materials: cold water and hot water.
	n-Hexylbenzene	Insoluble in the following materials: cold water and hot water.
	n-Octylbenzene	Insoluble in the following materials: cold water and hot water.
	n-Decylbenzene	Easily soluble in the following materials: methanol, diethyl ether and acetone. Insoluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Chemical stability	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	The product is stable. The product is stable.
Possibility of hazardous reactions	: Benzene Toluene o-Xylene m-Xylene p-Xylene	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

10 . Stability and reactivity

Ethylbenzene	Under normal conditions of storage and use, hazardous reactions will not occur.
Cumene	Under normal conditions of storage and use, hazardous reactions will not occur.
1,3,5-Trimethylbenzene	Under normal conditions of storage and use, hazardous reactions will not occur.
4-Isopropyltoluene (p-Cymene)	Under normal conditions of storage and use, hazardous reactions will not occur.
Propyl benzene	Under normal conditions of storage and use, hazardous reactions will not occur.
n-Butyl benzene	Under normal conditions of storage and use, hazardous reactions will not occur.
n-Hexylbenzene	Under normal conditions of storage and use, hazardous reactions will not occur.
n-Octylbenzene	Under normal conditions of storage and use, hazardous reactions will not occur.
n-Decylbenzene	Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Benzene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Toluene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
o-Xylene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
m-Xylene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
p-Xylene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Ethylbenzene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Cumene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
1,3,5-Trimethylbenzene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
4-Isopropyltoluene (p-Cymene)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Propyl benzene	Avoid all possible sources of ignition (spark or

10 . Stability and reactivity

		flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
	n-Butyl benzene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
	n-Hexylbenzene	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
	n-Octylbenzene n-Decylbenzene	No specific data. No specific data.
Materials to avoid	: Benzene Toluene o-Xylene	oxidizing materials oxidizing materials Reactive or incompatible with the following materials:
	m-Xylene	oxidizing materials Reactive or incompatible with the following materials:
	p-Xylene	oxidizing materials Reactive or incompatible with the following materials:
	Ethylbenzene Cumene	oxidizing materials oxidizing materials Reactive or incompatible with the following materials:
	1,3,5-Trimethylbenzene	oxidizing materials Reactive or incompatible with the following materials:
	4-Isopropyltoluene (p-Cymene)	oxidizing materials Reactive or incompatible with the following materials:
	Propyl benzene	oxidizing materials Reactive or incompatible with the following materials:
	n-Butyl benzene	oxidizing materials Reactive or incompatible with the following materials:
	n-Hexylbenzene	oxidizing materials Reactive or incompatible with the following materials:
	n-Octylbenzene n-Decylbenzene	oxidizing materials No specific data.Oxidising material No specific data.Oxidizing materials
Hazardous decomposition products	: Benzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Toluene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	o-Xylene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	m-Xylene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	p-Xylene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethylbenzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10 . Stability and reactivity

Cumene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
1,3,5-Trimethylbenzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
4-Isopropyltoluene (p-Cymene)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Propyl benzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
n-Butyl benzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
n-Hexylbenzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
n-Octylbenzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
n-Decylbenzene	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information**Potential acute health effects****Inhalation**

: Benzene	No known significant effects or critical hazards.
Toluene	Can cause central nervous system (CNS) depression. Vapours may cause drowsiness and dizziness.
o-Xylene	Harmful by inhalation. Can cause central nervous system (CNS) depression.
m-Xylene	Harmful by inhalation.
p-Xylene	Harmful by inhalation.
Ethylbenzene	Harmful by inhalation. Can cause central nervous system (CNS) depression.
Cumene	Irritating to respiratory system.
1,3,5-Trimethylbenzene	Irritating to respiratory system.
4-Isopropyltoluene (p-Cymene)	Irritating to respiratory system.
Propyl benzene	Irritating to respiratory system.
n-Butyl benzene	No known significant effects or critical hazards.
n-Hexylbenzene	Irritating to respiratory system.
n-Octylbenzene	No known significant effects or critical hazards.
n-Decylbenzene	No known significant effects or critical hazards.

Ingestion

: Benzene	Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
Toluene	Can cause central nervous system (CNS) depression. Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
o-Xylene	Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
m-Xylene	Irritating to mouth, throat and stomach.
p-Xylene	Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
Ethylbenzene	Can cause central nervous system (CNS) depression. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Cumene	No known significant effects or critical hazards.

11 . Toxicological information

	1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene)	No known significant effects or critical hazards. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.
	Propyl benzene	Aspiration hazard if swallowed. Can enter lungs and cause damage.
	n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	No known significant effects or critical hazards. Irritating to mouth, throat and stomach. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	Irritating to skin. Irritating to skin. Harmful in contact with skin. Irritating to skin. Harmful in contact with skin. Irritating to skin. Harmful in contact with skin. Irritating to skin. May cause skin dryness and irritation. May cause skin irritation. May cause skin dryness and irritation. Irritating to skin. May cause skin irritation. May cause skin irritation. Irritating to skin. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	Irritating to eyes. May cause eye irritation. May cause eye irritation. Irritating to eyes. May cause eye irritation. May cause eye irritation. Irritating to eyes. No known significant effects or critical hazards. No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Benzene Benzene	LD50 Oral	Rat	930 mg/kg	-
Toluene Toluene	LC50 Inhalation Vapour LD50 Oral	Rat Rat	49 g/m ³ 636 mg/kg	4 hours -
o-Xylene o-Xylene	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rabbit Rat	5300 ppm >20000 mg/kg 3000 mg/kg	4 hours - -
m-Xylene m-Xylene	LD50 Oral	Rat	4988 mg/kg	-
p-Xylene p-Xylene p-Xylene	LC50 Inhalation Gas. LD50 Oral LC50 Inhalation Gas.	Rat Rat Rat	4550 ppm 3910 mg/kg 4550 ppm	4 hours - 4 hours
Ethylbenzene Ethylbenzene	LC50 Inhalation Gas.	Rat	4000 ppm	4 hours

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Cumene Cumene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Cumene	LC50 Inhalation Vapour	Rat	39000 mg/m ³	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
	LC50 Inhalation Vapour	Rat	39000 mg/m ³	4 hours
1,3,5-Trimethylbenzene Mesitylene	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
4-Isopropyltoluene (p-Cymene) p-Cymene	LD50 Dermal	Rabbit	10545 mg/kg	-
	LD50 Oral	Rat	1400 mg/kg	-
Propyl benzene Propylbenzene	LD50 Oral	Rat	6040 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzene Benzene	Eyes - Moderate irritant	Rabbit	-	88 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Toluene Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
m-Xylene m-Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Ethylbenzene Ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
Cumene Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	86 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-

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1,3,5-Trimethylbenzene Mesitylene	Eyes - Mild irritant	Rabbit	-	milligrams 24 hours 500	-
	Skin - Moderate irritant	Rabbit	-	milligrams 24 hours 20	-
4-Isopropyltoluene (p-Cymene) p-Cymene	Skin - Moderate irritant	Rabbit	-	milligrams 24 hours 500	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Product name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Benzene Benzene	Carc. Cat. 1; R45	Muta. Cat. 2; R46	-	-
Toluene Toluene	-	-	Repr. Cat. 3; R63	-

Chronic effects : Benzene Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Toluene Harmful: danger of serious damage to health by prolonged exposure through inhalation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

o-Xylene Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

m-Xylene Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

p-Xylene Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Ethylbenzene Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Cumene No known significant effects or critical hazards.

1,3,5-Trimethylbenzene Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

4-Isopropyltoluene (p-Cymene) No known significant effects or critical hazards.

Propyl benzene No known significant effects or critical hazards.

n-Butyl benzene No known significant effects or critical hazards.

n-Hexylbenzene No known significant effects or critical hazards.

n-Octylbenzene No known significant effects or critical hazards.

n-Decylbenzene No known significant effects or critical hazards.

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Carcinogenicity	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	May cause heritable genetic effects. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	No known significant effects or critical hazards. May cause birth defects, based on animal data. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	No known significant effects or critical hazards. No known significant effects or critical hazards.

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Fertility effects	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	No known significant effects or critical hazards. No known significant effects or critical hazards.
 <u>Over-exposure signs/symptoms</u>		
Inhalation	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	No specific data. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness No specific data. No specific data. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following: respiratory tract irritation coughing Adverse symptoms may include the following: respiratory tract irritation coughing Adverse symptoms may include the following: respiratory tract irritation coughing Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data.

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Ingestion	: Benzene	Adverse symptoms may include the following: nausea or vomiting
	Toluene	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
	o-Xylene	No specific data.
	m-Xylene	No specific data.
	p-Xylene	Adverse symptoms may include the following: nausea or vomiting
	Ethylbenzene	Adverse symptoms may include the following: nausea or vomiting
	Cumene	No specific data.
	1,3,5-Trimethylbenzene	No specific data.
	4-Isopropyltoluene (p-Cymene)	Adverse symptoms may include the following: nausea or vomiting
	Propyl benzene	Adverse symptoms may include the following: nausea or vomiting
	n-Butyl benzene	No specific data.
	n-Hexylbenzene	No specific data.
	n-Octylbenzene	No specific data.
	n-Decylbenzene	No specific data.
Skin	: Benzene	Adverse symptoms may include the following: irritation redness dryness cracking
	Toluene	Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
	o-Xylene	Adverse symptoms may include the following: irritation redness dryness cracking
	m-Xylene	Adverse symptoms may include the following: irritation redness dryness cracking
	p-Xylene	Adverse symptoms may include the following: irritation redness dryness cracking
	Ethylbenzene	Adverse symptoms may include the following: irritation dryness cracking
	Cumene	No specific data.
	1,3,5-Trimethylbenzene	Adverse symptoms may include the following: irritation dryness cracking
	4-Isopropyltoluene (p-Cymene)	Adverse symptoms may include the following: irritation redness
	Propyl benzene	No specific data.

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	n-Butyl benzene n-Hexylbenzene	No specific data. Adverse symptoms may include the following: irritation redness
	n-Octylbenzene n-Decylbenzene	No specific data. No specific data.
Eyes	: Benzene	Adverse symptoms may include the following: irritation watering redness
	Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene)	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness
	Propyl benzene n-Butyl benzene n-Hexylbenzene	No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness
	n-Octylbenzene n-Decylbenzene	No specific data. No specific data.
Other adverse symptoms	: Benzene Toluene o-Xylene m-Xylene p-Xylene Ethylbenzene Cumene 1,3,5-Trimethylbenzene 4-Isopropyltoluene (p-Cymene) Propyl benzene n-Butyl benzene n-Hexylbenzene n-Octylbenzene n-Decylbenzene	Not available. Not available.
Target organs	: Benzene	Contains material which may cause damage to the following organs: blood, upper respiratory tract, skin, bone marrow, central nervous system (CNS), eye, lens or cornea.
	Toluene	Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	o-Xylene	Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	m-Xylene	Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	p-Xylene	Contains material which may cause damage to

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Ethylbenzene

the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, central nervous system (CNS), ears.

Cumene

Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

1,3,5-Trimethylbenzene

Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

4-Isopropyltoluene (p-Cymene)

Contains material which may cause damage to the following organs: skin, eye, lens or cornea. Contains material which may cause damage to the following organs: lungs, upper respiratory tract, eyes.

Propyl benzene

Not available.

n-Butyl benzene

n-Hexylbenzene

Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.

n-Octylbenzene

Not available.

n-Decylbenzene

Not available.

12 . Ecological information

Ecotoxicity

: Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Benzene Benzene	Acute EC50 29000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1360000 µg/l Fresh water	Algae - Scenedesmus abundans	96 hours
	Acute EC50 9230 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 21000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
Toluene Toluene	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
o-Xylene	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

12 . Ecological information

o-Xylene o-Xylene	Acute EC50 4700 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 12700 µg/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 1390 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7600 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
m-Xylene m-Xylene	Acute EC50 4900 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7090 µg/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 5000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8400 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
p-Xylene p-Xylene	Acute EC50 3200 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 5030 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2 µl/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Ethylbenzene Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2970 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
Cumene Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7500 µg/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 11200 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
1,3,5-Trimethylbenzene Mesitylene	Acute LC50 13000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 to 15050 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
4-Isopropyltoluene (p-Cymene) p-Cymene	Acute EC50 22000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 6500 to 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 44 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Propyl benzene Propylbenzene	Acute EC50 1800 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours

12 . Ecological information

	Acute LC50 1550 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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Other ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethylbenzene Ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Benzene Benzene	2.13	11	low
Toluene Toluene	2.73	90	low
o-Xylene o-Xylene	3.12	8.1 to 25.9	low
m-Xylene m-Xylene	3.2	8.1 to 25.9	low
p-Xylene p-Xylene	3.15	8.1 to 25.9	low
Ethylbenzene Ethylbenzene	3.6	-	low
Cumene Cumene	3.55	94.69	low
1,3,5-Trimethylbenzene Mesitylene	3.42	161	low
4-Isopropyltoluene (p-Cymene) p-Cymene	4.1	-	high
Propyl benzene Propylbenzene	3.69	-	low
n-Hexylbenzene Hexylbenzene	5.52	-	high

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14 . Transport information

Regulatory information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information : Remarks
De minimis quantities

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

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Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
Benzene Benzene	Schedule: RESTRICTED. when used as a feedstock containing more than 50% of benzene by volume

Australia inventory (AICS) : Not determined.

16 . Other information

Remarks :

Date of issue : 29/07/2013

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✔ Indicates information that has changed from previously issued version.

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