

# SAFETY DATA SHEET



PolyAcrylic Acid KIT, Part Number PL2140-0100

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	: PolyAcrylic Acid KIT, Part Number PL2140-0100	
<b>EC number</b>	: Not available.	
<b>Part No. (Kit)</b>	: PL2140-0100	
<b>Part No.</b>		
	Nominal 1K	Not available.
	Nominal 3K	Not available.
	Nominal 7K	Not available.
	Nominal 13K	Not available.
	Nominal 30K	Not available.
	Nominal 70K	Not available.
	Nominal 130K	Not available.
	Nominal 300K	Not available.
	Nominal 700K	Not available.
	Nominal 1 Million	Not available.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Analytical chemistry.	
0.2 g x 10 Bottle	
Nominal 1K	0.2 g
Nominal 3K	0.2 g
Nominal 7K	0.2 g
Nominal 13K	0.2 g
Nominal 30K	0.2 g
Nominal 70K	0.2 g
Nominal 130K	0.2 g
Nominal 300K	0.2 g
Nominal 700K	0.2 g
Nominal 1 Million	0.2 g

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	<input checked="" type="checkbox"/> Nominal 1K	Mono-constituent substance
		Nominal 3K	Mono-constituent substance
		Nominal 7K	Mono-constituent substance
		Nominal 13K	Mono-constituent substance
		Nominal 30K	Mono-constituent substance
		Nominal 70K	Mono-constituent substance
		Nominal 130K	Mono-constituent substance
		Nominal 300K	Mono-constituent substance
		Nominal 700K	Mono-constituent substance
		Nominal 1 Million	Mono-constituent substance

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

##### **Nominal 1K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 3K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 7K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 13K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 30K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 70K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 130K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 300K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 700K**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

##### **Nominal 1 Million**

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2











See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

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## SECTION 2: Hazards identification

<b>Hazard pictograms</b>	:	<input checked="" type="checkbox"/> Nominal 1K	
		Nominal 3K	
		Nominal 7K	
		Nominal 13K	
		Nominal 30K	
		Nominal 70K	
		Nominal 130K	
		Nominal 300K	
		Nominal 700K	
		Nominal 1 Million	

<b>Signal word</b>	:	<input checked="" type="checkbox"/> Nominal 1K	Warning
		Nominal 3K	Warning
		Nominal 7K	Warning
		Nominal 13K	Warning
		Nominal 30K	Warning
		Nominal 70K	Warning
		Nominal 130K	Warning
		Nominal 300K	Warning
		Nominal 700K	Warning
		Nominal 1 Million	Warning

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## SECTION 2: Hazards identification

<b>Hazard statements</b>	: <input checked="" type="checkbox"/> Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation.
<b>Precautionary statements</b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> Nominal 1K  Nominal 3K  Nominal 7K  Nominal 13K  Nominal 30K  Nominal 70K  Nominal 130K  Nominal 300K  Nominal 700K  Nominal 1 Million	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
<b>Response</b>	: <input checked="" type="checkbox"/> Nominal 1K  Nominal 3K  Nominal 7K  Nominal 13K  Nominal 30K  Nominal 70K  Nominal 130K  Nominal 300K  Nominal 700K  Nominal 1 Million	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## SECTION 2: Hazards identification

<b>Storage</b>	:	Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	:	Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	:	Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:	Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>			
<b>Tactile warning of danger</b>	:	Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

### 2.3 Other hazards

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : No.  
P: Not available. B: Not available. T: No.

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## SECTION 2: Hazards identification

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not available.

Other hazards which do not result in classification :

<input checked="" type="checkbox"/> Nominal 1K	May form explosible dust-air mixture if dispersed.
Nominal 3K	May form explosible dust-air mixture if dispersed.
Nominal 7K	May form explosible dust-air mixture if dispersed.
Nominal 13K	May form explosible dust-air mixture if dispersed.
Nominal 30K	May form explosible dust-air mixture if dispersed.
Nominal 70K	May form explosible dust-air mixture if dispersed.
Nominal 130K	May form explosible dust-air mixture if dispersed.
Nominal 300K	May form explosible dust-air mixture if dispersed.
Nominal 700K	May form explosible dust-air mixture if dispersed.
Nominal 1 Million	May form explosible dust-air mixture if dispersed.

## SECTION 3: Composition/information on ingredients

3.1 Substances :

<input checked="" type="checkbox"/> Nominal 1K	Mono-constituent substance
Nominal 3K	Mono-constituent substance
Nominal 7K	Mono-constituent substance
Nominal 13K	Mono-constituent substance
Nominal 30K	Mono-constituent substance
Nominal 70K	Mono-constituent substance
Nominal 130K	Mono-constituent substance
Nominal 300K	Mono-constituent substance
Nominal 700K	Mono-constituent substance
Nominal 1 Million	Mono-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> <b>Nominal 1K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 3K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 7K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 13K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 30K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 70K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 130K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 300K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 700K</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]
<b>Nominal 1 Million</b> Sodium poly acrylate	CAS: 9003-04-7	100	Eye Irrit. 2, H319	[A]

Date of issue/Date of revision : 21/11/2017

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### SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.	
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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.

Type

[A] Constituent

[B] Impurity

[C] Stabilising additive

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: Nominal 1K	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.
	Nominal 3K	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.
	Nominal 7K	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.
	Nominal 13K	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.
	Nominal 30K	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.
	Nominal 70K	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.
	Nominal 130K	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.
	Nominal 300K	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.
	Nominal 700K	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.
	Nominal 1 Million	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.



## SECTION 4: First aid measures

### Inhalation

: Nominal 1K

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.

Nominal 3K

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.

Nominal 7K

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.

Nominal 13K

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.

Nominal 30K

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.

Nominal 70K

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.

Nominal 130K

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is



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## SECTION 4: First aid measures

		<p>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.</p>
	Nominal 300K	<p>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.</p>
	Nominal 700K	<p>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.</p>
	Nominal 1 Million	<p>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.</p>
<b>Skin contact</b>	: Nominal 1K	<p>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.</p>
	Nominal 3K	<p>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.</p>
	Nominal 7K	<p>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.</p>
	Nominal 13K	<p>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.</p>
	Nominal 30K	<p>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.</p>
	Nominal 70K	<p>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.</p>

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	Nominal 130K	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.
	Nominal 300K	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.
	Nominal 700K	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.
	Nominal 1 Million	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.
<b>Ingestion</b>	: Nominal 1K	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.
	Nominal 3K	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.
	Nominal 7K	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.
	Nominal 13K	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

## SECTION 4: First aid measures

	<p>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>
Nominal 30K	<p>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>
Nominal 70K	<p>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>
Nominal 130K	<p>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>
Nominal 300K	<p>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</p>

## SECTION 4: First aid measures

	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.
Nominal 700K	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.
Nominal 1 Million	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.
<b>Protection of first-aiders</b> : Nominal 1K	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.
Nominal 3K	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.
Nominal 7K	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.
Nominal 13K	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.
Nominal 30K	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.
Nominal 70K	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.
Nominal 130K	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.
Nominal 300K	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.
Nominal 700K	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.
Nominal 1 Million	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.

## SECTION 4: First aid measures

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	:	Nominal 1K	Causes serious eye irritation.
		Nominal 3K	Causes serious eye irritation.
		Nominal 7K	Causes serious eye irritation.
		Nominal 13K	Causes serious eye irritation.
		Nominal 30K	Causes serious eye irritation.
		Nominal 70K	Causes serious eye irritation.
		Nominal 130K	Causes serious eye irritation.
		Nominal 300K	Causes serious eye irritation.
		Nominal 700K	Causes serious eye irritation.
	Nominal 1 Million	Causes serious eye irritation.	
<b>Inhalation</b>	:	Nominal 1K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 3K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 7K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 13K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 30K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 70K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 130K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 300K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
		Nominal 700K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Nominal 1 Million	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.	
<b>Skin contact</b>	:	Nominal 1K	No known significant effects or critical hazards.
		Nominal 3K	No known significant effects or critical hazards.
		Nominal 7K	No known significant effects or critical hazards.
		Nominal 13K	No known significant effects or critical hazards.
		Nominal 30K	No known significant effects or critical hazards.
		Nominal 70K	No known significant effects or critical hazards.
		Nominal 130K	No known significant effects or critical hazards.
		Nominal 300K	No known significant effects or critical hazards.
		Nominal 700K	No known significant effects or critical hazards.
	Nominal 1 Million	No known significant effects or critical hazards.	



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<b>Ingestion</b>	: Nominal 1K	No known significant effects or critical hazards.
	Nominal 3K	No known significant effects or critical hazards.
	Nominal 7K	No known significant effects or critical hazards.
	Nominal 13K	No known significant effects or critical hazards.
	Nominal 30K	No known significant effects or critical hazards.
	Nominal 70K	No known significant effects or critical hazards.
	Nominal 130K	No known significant effects or critical hazards.
	Nominal 300K	No known significant effects or critical hazards.
	Nominal 700K	No known significant effects or critical hazards.
	Nominal 1 Million	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: Nominal 1K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 3K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 7K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 13K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 30K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 70K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 130K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 300K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 700K	Adverse symptoms may include the following: pain or irritation watering redness
	Nominal 1 Million	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Nominal 1K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 3K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 7K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 13K	Adverse symptoms may include the following:

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		respiratory tract irritation coughing
	Nominal 30K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 70K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 130K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 300K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 700K	Adverse symptoms may include the following: respiratory tract irritation coughing
	Nominal 1 Million	Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Skin contact</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: Nominal 1K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 3K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 7K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 13K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 30K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 70K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 130K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 300K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 700K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nominal 1 Million	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.



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		immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder. Use dry chemical powder.
<b>Unsuitable extinguishing media</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	: Nominal 1K Nominal 3K Nominal 7K Nominal 13K Nominal 30K Nominal 70K Nominal 130K Nominal 300K Nominal 700K Nominal 1 Million	May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed. May form explosible dust-air mixture if dispersed.
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<b>Hazardous combustion products</b>	: Nominal 1K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 3K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 7K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 13K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 30K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 70K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 130K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 300K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 700K	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Nominal 1 Million	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: Nominal 1K	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.
	Nominal 3K	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.
	Nominal 7K	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.
	Nominal 13K	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

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## SECTION 5: Firefighting measures

	Nominal 30K	risk. Use water spray to keep fire-exposed containers cool. 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.
	Nominal 70K	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.
	Nominal 130K	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.
	Nominal 300K	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.
	Nominal 700K	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.
	Nominal 1 Million	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.
<b>Special protective equipment for fire-fighters</b>	: Nominal 1K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nominal 3K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nominal 7K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nominal 13K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nominal 30K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nominal 70K	Fire-fighters should wear appropriate protective equipment

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## SECTION 5: Firefighting measures

Nominal 130K	and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Nominal 300K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Nominal 700K	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Nominal 1 Million	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: Nominal 1K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Nominal 3K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Nominal 7K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Nominal 13K	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

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## SECTION 6: Accidental release measures

	area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 30K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 70K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 130K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 300K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 700K	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Nominal 1 Million	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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: Nominal 1K If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Nominal 3K If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Nominal 7K If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-



## SECTION 6: Accidental release measures

Nominal 13K	emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 30K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 70K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 130K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 300K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 700K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Nominal 1 Million	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Nominal 1K	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).
Nominal 3K	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).
Nominal 7K	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).
Nominal 13K	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).
Nominal 30K	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).
Nominal 70K	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).
Nominal 130K	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).
Nominal 300K	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).

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## SECTION 6: Accidental release measures

Nominal 700K	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).
Nominal 1 Million	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).

### 6.3 Methods and material for containment and cleaning up

<b>Methods for cleaning up</b> : Nominal 1K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 3K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 7K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 13K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 30K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 70K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 130K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 300K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 700K	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Nominal 1 Million	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.



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## SECTION 6: Accidental release measures

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Nominal 1K

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

Nominal 3K

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

Nominal 7K

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

Nominal 13K

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition

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## SECTION 7: Handling and storage

	<p>(spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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>
Nominal 30K	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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>
Nominal 70K	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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>
Nominal 130K	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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</p>

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Nominal 300K

material. Empty containers retain product residue and can be hazardous. Do not reuse container.  
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

Nominal 700K

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

Nominal 1 Million

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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.

**Advice on general occupational hygiene**

: Nominal 1K

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. See also Section 8 for additional information on hygiene measures.  
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,

Nominal 3K

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Nominal 7K	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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. See also Section 8 for additional information on hygiene measures.
Nominal 13K	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. See also Section 8 for additional information on hygiene measures.
Nominal 30K	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. See also Section 8 for additional information on hygiene measures.
Nominal 70K	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. See also Section 8 for additional information on hygiene measures.
Nominal 130K	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. See also Section 8 for additional information on hygiene measures.
Nominal 300K	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. See also Section 8 for additional information on hygiene measures.
Nominal 700K	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. See also Section 8 for additional information on hygiene measures.
Nominal 1 Million	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. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage</b>	: Nominal 1K	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
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## SECTION 7: Handling and storage

Nominal 3K	<p>upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> <p>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. See Section 10 for incompatible materials before handling or use.</p>
Nominal 7K	<p>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. See Section 10 for incompatible materials before handling or use.</p>
Nominal 13K	<p>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. See Section 10 for incompatible materials before handling or use.</p>
Nominal 30K	<p>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. See Section 10 for incompatible materials before handling or use.</p>
Nominal 70K	<p>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</p>



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Nominal 130K	environmental contamination. See Section 10 for incompatible materials before handling or use. 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. See Section 10 for incompatible materials before handling or use.
Nominal 300K	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. See Section 10 for incompatible materials before handling or use.
Nominal 700K	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. See Section 10 for incompatible materials before handling or use.
Nominal 1 Million	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. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Nominal 1K	Industrial applications, Professional applications.
	Nominal 3K	Industrial applications, Professional applications.
	Nominal 7K	Industrial applications, Professional applications.
	Nominal 13K	Industrial applications, Professional applications.
	Nominal 30K	Industrial applications, Professional applications.
	Nominal 70K	Industrial applications, Professional applications.
	Nominal 130K	Industrial applications, Professional applications.
	Nominal 300K	Industrial applications, Professional applications.
	Nominal 700K	Industrial applications, Professional applications.

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	Nominal 1 Million	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	Nominal 1K	Not applicable.
	Nominal 3K	Not applicable.
	Nominal 7K	Not applicable.
	Nominal 13K	Not applicable.
	Nominal 30K	Not applicable.
	Nominal 70K	Not applicable.
	Nominal 130K	Not applicable.
	Nominal 300K	Not applicable.
	Nominal 700K	Not applicable.
	Nominal 1 Million	Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**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.

**Eye/face protection** : 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

**Hand protection** : 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.



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## SECTION 8: Exposure controls/personal protection

- Body protection** : 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	Nominal 1K	Solid. [Powder.]
		Nominal 3K	Solid. [Powder.]
		Nominal 7K	Solid. [Powder.]
		Nominal 13K	Solid. [Powder.]
		Nominal 30K	Solid. [Powder.]
		Nominal 70K	Solid. [Powder.]
		Nominal 130K	Solid. [Powder.]
		Nominal 300K	Solid. [Powder.]
		Nominal 700K	Solid. [Powder.]
	Nominal 1 Million	Solid. [Powder.]	
<b>Colour</b>	:	Nominal 1K	White.
		Nominal 3K	White.
		Nominal 7K	White.
		Nominal 13K	White.
		Nominal 30K	White.
		Nominal 70K	White.
		Nominal 130K	White.
		Nominal 300K	White.
		Nominal 700K	White.
	Nominal 1 Million	White.	
<b>Odour</b>	:	Nominal 1K	Acetic acid. [Slight]
		Nominal 3K	Acetic acid. [Slight]
		Nominal 7K	Acetic acid. [Slight]
		Nominal 13K	Acetic acid. [Slight]
		Nominal 30K	Acetic acid. [Slight]
		Nominal 70K	Acetic acid. [Slight]
		Nominal 130K	Acetic acid. [Slight]
		Nominal 300K	Acetic acid. [Slight]
		Nominal 700K	Acetic acid. [Slight]
	Nominal 1 Million	Acetic acid. [Slight]	
<b>Odour threshold</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
	Nominal 1 Million	Not available.	

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## SECTION 9: Physical and chemical properties

<b>pH</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Melting point/freezing point</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Initial boiling point and boiling range</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Flash point</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Evaporation rate</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Flammability (solid, gas)</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.

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## SECTION 9: Physical and chemical properties

<b>Upper/lower flammability or explosive limits</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Vapour pressure</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Vapour density</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Relative density</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Solubility(ies)</b>	:	Nominal 1K	Partially soluble in the following materials: cold water and hot water.
		Nominal 3K	Partially soluble in the following materials: cold water and hot water.
		Nominal 7K	Partially soluble in the following materials: cold water and hot water.
		Nominal 13K	Partially soluble in the following materials: cold water and hot water.
		Nominal 30K	Partially soluble in the following materials: cold water and hot water.
		Nominal 70K	Partially soluble in the following materials: cold water and hot water.
		Nominal 130K	Partially soluble in the following materials: cold water and hot water.
		Nominal 300K	Partially soluble in the following materials: cold water and hot water.
		Nominal 700K	Partially soluble in the following materials: cold water and hot water.
		Nominal 1 Million	Partially soluble in the following materials: cold water and hot water.

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## SECTION 9: Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Auto-ignition temperature</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Decomposition temperature</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Viscosity</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Explosive properties</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.
<b>Oxidising properties</b>	:	Nominal 1K	Not available.
		Nominal 3K	Not available.
		Nominal 7K	Not available.
		Nominal 13K	Not available.
		Nominal 30K	Not available.
		Nominal 70K	Not available.
		Nominal 130K	Not available.
		Nominal 300K	Not available.
		Nominal 700K	Not available.
		Nominal 1 Million	Not available.

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## SECTION 9: Physical and chemical properties

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Nominal 1K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 3K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 7K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 13K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 30K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 70K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 130K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 300K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 700K	No specific test data related to reactivity available for this product or its ingredients.
	Nominal 1 Million	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Nominal 1K	The product is stable.
	Nominal 3K	The product is stable.
	Nominal 7K	The product is stable.
	Nominal 13K	The product is stable.
	Nominal 30K	The product is stable.
	Nominal 70K	The product is stable.
	Nominal 130K	The product is stable.
	Nominal 300K	The product is stable.
	Nominal 700K	The product is stable.
	Nominal 1 Million	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Nominal 1K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 3K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 7K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 13K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 30K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 70K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 130K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 300K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 700K	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nominal 1 Million	Under normal conditions of storage and use, hazardous reactions will not occur.

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## SECTION 10: Stability and reactivity

10.4 Conditions to avoid	: Nominal 1K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 3K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 7K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 13K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 30K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 70K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 130K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 300K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
	Nominal 700K	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation.

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## SECTION 10: Stability and reactivity

	Nominal 1 Million	Moisture-sensitive material. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation. Moisture-sensitive material.
<b>10.5 Incompatible materials</b>	: Nominal 1K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 3K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 7K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 13K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 30K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 70K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 130K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 300K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 700K	Reactive or incompatible with the following materials: oxidizing materials
	Nominal 1 Million	Reactive or incompatible with the following materials: oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: Nominal 1K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 3K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 7K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 13K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 30K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 70K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 130K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 300K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 700K	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nominal 1 Million	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity



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## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
<b>Nominal 1K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 3K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 7K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 13K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 30K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 70K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 130K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 300K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 700K</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-
<b>Nominal 1 Million</b> Sodium poly acrylate	LD50 Oral	Rat	>8250 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Nominal 1K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 3K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 7K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 13K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 30K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 70K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 130K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 300K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
<b>Nominal 700K</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-

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## SECTION 11: Toxicological information

<b>Nominal 1 Million</b> Sodium poly acrylate	Eyes - Moderate irritant	Rabbit	-	2 milligrams	-
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### Sensitiser

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Nominal 1K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 3K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 7K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 13K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 30K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 70K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 130K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 300K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 700K	Routes of entry anticipated: Oral, Dermal, Inhalation.
Nominal 1 Million	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### Inhalation

Nominal 1K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 3K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 7K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 13K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 30K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 70K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 130K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 300K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 700K	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Nominal 1 Million	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

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## SECTION 11: Toxicological information

<b>Ingestion</b>	:	Nominal 1K	No known significant effects or critical hazards.
		Nominal 3K	No known significant effects or critical hazards.
		Nominal 7K	No known significant effects or critical hazards.
		Nominal 13K	No known significant effects or critical hazards.
		Nominal 30K	No known significant effects or critical hazards.
		Nominal 70K	No known significant effects or critical hazards.
		Nominal 130K	No known significant effects or critical hazards.
		Nominal 300K	No known significant effects or critical hazards.
		Nominal 700K	No known significant effects or critical hazards.
		Nominal 1 Million	No known significant effects or critical hazards.
<b>Skin contact</b>	:	Nominal 1K	No known significant effects or critical hazards.
		Nominal 3K	No known significant effects or critical hazards.
		Nominal 7K	No known significant effects or critical hazards.
		Nominal 13K	No known significant effects or critical hazards.
		Nominal 30K	No known significant effects or critical hazards.
		Nominal 70K	No known significant effects or critical hazards.
		Nominal 130K	No known significant effects or critical hazards.
		Nominal 300K	No known significant effects or critical hazards.
		Nominal 700K	No known significant effects or critical hazards.
		Nominal 1 Million	No known significant effects or critical hazards.
<b>Eye contact</b>	:	Nominal 1K	Causes serious eye irritation.
		Nominal 3K	Causes serious eye irritation.
		Nominal 7K	Causes serious eye irritation.
		Nominal 13K	Causes serious eye irritation.
		Nominal 30K	Causes serious eye irritation.
		Nominal 70K	Causes serious eye irritation.
		Nominal 130K	Causes serious eye irritation.
		Nominal 300K	Causes serious eye irritation.
		Nominal 700K	Causes serious eye irritation.
		Nominal 1 Million	Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	:	Nominal 1K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 3K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 7K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 13K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 30K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 70K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 130K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 300K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 700K	Adverse symptoms may include the following: respiratory tract irritation coughing
		Nominal 1 Million	Adverse symptoms may include the following: respiratory tract irritation coughing

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## SECTION 11: Toxicological information

<b>Ingestion</b>	:	Nominal 1K	No specific data.
		Nominal 3K	No specific data.
		Nominal 7K	No specific data.
		Nominal 13K	No specific data.
		Nominal 30K	No specific data.
		Nominal 70K	No specific data.
		Nominal 130K	No specific data.
		Nominal 300K	No specific data.
		Nominal 700K	No specific data.
		Nominal 1 Million	No specific data.
<b>Skin contact</b>	:	Nominal 1K	No specific data.
		Nominal 3K	No specific data.
		Nominal 7K	No specific data.
		Nominal 13K	No specific data.
		Nominal 30K	No specific data.
		Nominal 70K	No specific data.
		Nominal 130K	No specific data.
		Nominal 300K	No specific data.
		Nominal 700K	No specific data.
		Nominal 1 Million	No specific data.
<b>Eye contact</b>	:	Nominal 1K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 3K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 7K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 13K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 30K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 70K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 130K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 300K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 700K	Adverse symptoms may include the following: pain or irritation watering redness
		Nominal 1 Million	Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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## SECTION 11: Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: Nominal 1K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 3K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 7K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 13K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 30K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 70K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 130K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 300K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 700K	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
	Nominal 1 Million	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
<b>Carcinogenicity</b>	: Nominal 1K	No known significant effects or critical hazards.
	Nominal 3K	No known significant effects or critical hazards.
	Nominal 7K	No known significant effects or critical hazards.
	Nominal 13K	No known significant effects or critical hazards.
	Nominal 30K	No known significant effects or critical hazards.
	Nominal 70K	No known significant effects or critical hazards.
	Nominal 130K	No known significant effects or critical hazards.
	Nominal 300K	No known significant effects or critical hazards.
	Nominal 700K	No known significant effects or critical hazards.
	Nominal 1 Million	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Nominal 1K	No known significant effects or critical hazards.
	Nominal 3K	No known significant effects or critical hazards.
	Nominal 7K	No known significant effects or critical hazards.
	Nominal 13K	No known significant effects or critical hazards.
	Nominal 30K	No known significant effects or critical hazards.
	Nominal 70K	No known significant effects or critical hazards.
	Nominal 130K	No known significant effects or critical hazards.
	Nominal 300K	No known significant effects or critical hazards.
	Nominal 700K	No known significant effects or critical hazards.
	Nominal 1 Million	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Nominal 1K	No known significant effects or critical hazards.
	Nominal 3K	No known significant effects or critical hazards.
	Nominal 7K	No known significant effects or critical hazards.
	Nominal 13K	No known significant effects or critical hazards.
	Nominal 30K	No known significant effects or critical hazards.
	Nominal 70K	No known significant effects or critical hazards.
	Nominal 130K	No known significant effects or critical hazards.
	Nominal 300K	No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

<b>Developmental effects</b>	:	Nominal 700K	No known significant effects or critical hazards.
		Nominal 1 Million	No known significant effects or critical hazards.
		Nominal 1K	No known significant effects or critical hazards.
		Nominal 3K	No known significant effects or critical hazards.
		Nominal 7K	No known significant effects or critical hazards.
		Nominal 13K	No known significant effects or critical hazards.
		Nominal 30K	No known significant effects or critical hazards.
		Nominal 70K	No known significant effects or critical hazards.
		Nominal 130K	No known significant effects or critical hazards.
		Nominal 300K	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	Nominal 700K	No known significant effects or critical hazards.
		Nominal 1 Million	No known significant effects or critical hazards.
		Nominal 1K	No known significant effects or critical hazards.
		Nominal 3K	No known significant effects or critical hazards.
		Nominal 7K	No known significant effects or critical hazards.
		Nominal 13K	No known significant effects or critical hazards.
		Nominal 30K	No known significant effects or critical hazards.
		Nominal 70K	No known significant effects or critical hazards.
		Nominal 130K	No known significant effects or critical hazards.
		Nominal 300K	No known significant effects or critical hazards.
	Nominal 700K	No known significant effects or critical hazards.	
	Nominal 1 Million	No known significant effects or critical hazards.	

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ )** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : No.  
P: Not available. B: Not available. T: No.

**vPvB** : Not available.  
vP: Not available. vB: Not available.

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



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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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.

## SECTION 14: Transport information

**ADR/RID / IMDG / IATA** : Not regulated.

#### Additional information

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	<b>Annex XVII - Restrictions</b> : Nominal 1K	Not applicable.
	Nominal 3K	Not applicable.
	Nominal 7K	Not applicable.
	Nominal 13K	Not applicable.
	Nominal 30K	Not applicable.
	Nominal 70K	Not applicable.
	Nominal 130K	Not applicable.
	Nominal 300K	Not applicable.
	Nominal 700K	Not applicable.
	Nominal 1 Million	Not applicable.

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

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## SECTION 15: Regulatory information

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>Malaysia</b>	: All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input type="checkbox"/> Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input type="checkbox"/> Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

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## SECTION 16: Other information

Classification	Justification
<b>Nominal 1K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 3K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 7K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 13K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 30K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 70K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 130K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 300K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 700K</b> Eye Irrit. 2, H319	Calculation method
<b>Nominal 1 Million</b> Eye Irrit. 2, H319	Calculation method

### Full text of abbreviated H statements

<b>Nominal 1K</b> H319	Causes serious eye irritation.
<b>Nominal 3K</b> H319	Causes serious eye irritation.
<b>Nominal 7K</b> H319	Causes serious eye irritation.
<b>Nominal 13K</b> H319	Causes serious eye irritation.
<b>Nominal 30K</b> H319	Causes serious eye irritation.
<b>Nominal 70K</b> H319	Causes serious eye irritation.
<b>Nominal 130K</b> H319	Causes serious eye irritation.
<b>Nominal 300K</b> H319	Causes serious eye irritation.
<b>Nominal 700K</b> H319	Causes serious eye irritation.
<b>Nominal 1 Million</b>	

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## SECTION 16: Other information

H319 Causes serious eye irritation.

### [Full text of classifications \[CLP/GHS\]](#)

<b>Nominal 1K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 3K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 7K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 13K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 30K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 70K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 130K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 300K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 700K</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
<b>Nominal 1 Million</b> Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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### [Notice to reader](#)

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