

SAFETY DATA SHEET



OQ - PV Chemicals Standards Kit 1, Part Number 5063-6503

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

1.1 Product identifier

Product name	:	OQ - PV Chemicals Standards Kit 1, Part Number 5063-6503
Part no. (chemical kit)	:	5063-6503
Part no.	:	<input checked="" type="checkbox"/> Hexane Solvent Blank 5063-6503-4
		Potassium Dichromate Solution (600.6 mg/L) 5063-6503-1
		Potassium Dichromate Solution (60.06 mg/L) 5063-6503-2
		Sulfuric Acid Solution (.01N) 5063-6503-3
		Toluene Solution (0.02%) 5063-6503-5
		Potassium Chloride Solution (12 g/L) 5063-6503-6
		Sodium Iodide Solution (10 g/L) 5063-6503-7
		Sodium Nitrite Solution (50 g/L) 5063-6503-8

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

Material uses	:	<input checked="" type="checkbox"/> Reagents and Standards for Analytical Chemistry Laboratory Use
		<input checked="" type="checkbox"/> Hexane Solvent Blank 2 x 10 ml
		Potassium Dichromate Solution (600.6 mg/L) 2 x 10 ml
		Potassium Dichromate Solution (60.06 mg/L) 2 x 10 ml
		Sulfuric Acid Solution (.01N) 4 x 10 ml
		Toluene Solution (0.02%) 1 x 10 ml
		Potassium Chloride Solution (12 g/L) 1 x 10 ml
		Sodium Iodide Solution (10 g/L) 1 x 10 ml
		Sodium Nitrite Solution (50 g/L) 1 x 10 ml

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Hexane Solvent Blank	Mono-constituent substance
		Potassium Dichromate Solution (600.6 mg/L)	Mixture
		Potassium Dichromate Solution (60.06 mg/L)	Mixture
		Sulfuric Acid Solution (.01N)	Mixture
		Toluene Solution (0.02%)	Mixture
		Potassium Chloride Solution (12 g/L)	Mixture
		Sodium Iodide Solution (10 g/L)	Mixture
		Sodium Nitrite Solution (50 g/L)	Mixture

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

Hexane Solvent Blank

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H361f	REPRODUCTIVE TOXICITY (Fertility) - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
H304	ASPIRATION HAZARD - Category 1
H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Toluene Solution (0.02%)

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H361f	REPRODUCTIVE TOXICITY (Fertility) - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
H304	ASPIRATION HAZARD - Category 1
H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Sodium Iodide Solution (10 g/L)

H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
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Sodium Nitrite Solution (50 g/L)

H302	ACUTE TOXICITY (oral) - Category 4
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
















Ingredients of unknown toxicity	:	Potassium Chloride Solution (12 g/L)	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

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


SECTION 2: Hazards identification

Hazard pictograms	:  Hexane Solvent Blank	   
	Toluene Solution (0.02%) 	   
	Sodium Nitrite Solution (50 g/L) 	 
Signal word	:  Hexane Solvent Blank	Danger
	Potassium Dichromate Solution (600.6 mg/L)	No signal word.
	Potassium Dichromate Solution (60.06 mg/L)	No signal word.
	Sulfuric Acid Solution (.01N)	No signal word.
	Toluene Solution (0.02%)	Danger
	Potassium Chloride Solution (12 g/L)	No signal word.
	Sodium Iodide Solution (10 g/L)	No signal word.
	Sodium Nitrite Solution (50 g/L)	Warning
Hazard statements	:  Hexane Solvent Blank	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H361f - Suspected of damaging fertility. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects. No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H361f - Suspected of damaging fertility. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects. No known significant effects or critical hazards.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	H412 - Harmful to aquatic life with long lasting effects.
	Sodium Nitrite Solution (50 g/L)	H302 - Harmful if swallowed. H400 - Very toxic to aquatic life.


Precautionary statements

SECTION 2: Hazards identification


Prevention

:  Hexane Solvent Blank	P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour.
Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
Sulfuric Acid Solution (.01N)	Not applicable.
Toluene Solution (0.02%)	P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour.
Potassium Chloride Solution (12 g/L)	Not applicable.
Sodium Iodide Solution (10 g/L)	P273 - Avoid release to the environment.
Sodium Nitrite Solution (50 g/L)	P273 - Avoid release to the environment.

Response

:  Hexane Solvent Blank	P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
Sulfuric Acid Solution (.01N)	Not applicable.
Toluene Solution (0.02%)	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Potassium Chloride Solution (12 g/L)	Not applicable.
Sodium Iodide Solution (10 g/L)	Not applicable.
Sodium Nitrite Solution (50 g/L)	P391 - Collect spillage.

Storage

:  Hexane Solvent Blank	P405 - Store locked up.
Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
Sulfuric Acid Solution (.01N)	Not applicable.
Toluene Solution (0.02%)	P405 - Store locked up.

SECTION 2: Hazards identification

	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	Not applicable.
Disposal	<input checked="" type="checkbox"/> Hexane Solvent Blank	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
	Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sodium Nitrite Solution (50 g/L)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<input checked="" type="checkbox"/> Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
	Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
	Toluene Solution (0.02%) - n-hexane	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	- sodium nitrite
Supplemental label elements	<input checked="" type="checkbox"/> Hexane Solvent Blank	Not applicable.
	Potassium Dichromate Solution (600.6 mg/L)	Safety data sheet available on request.
	Potassium Dichromate Solution (60.06 mg/L)	Safety data sheet available on request.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	Not applicable.
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	<input checked="" type="checkbox"/> Hexane Solvent Blank	Not applicable.
	Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
	Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	Not applicable.
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	Not applicable.

Special packaging requirements

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SECTION 2: Hazards identification

Tactile warning of danger	:	nHexane Solvent Blank	Not applicable.
		Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
		Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
		Sulfuric Acid Solution (.01N)	Not applicable.
		Toluene Solution (0.02%)	Not applicable.
		Potassium Chloride Solution (12 g/L)	Not applicable.
		Sodium Iodide Solution (10 g/L)	Not applicable.
		Sodium Nitrite Solution (50 g/L)	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	nHexane Solvent Blank	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour may cause flash fire or explosion.
		Potassium Dichromate Solution (600.6 mg/L)	None known.
		Potassium Dichromate Solution (60.06 mg/L)	None known.
		Sulfuric Acid Solution (.01N)	None known.
		Toluene Solution (0.02%)	None known.
		Potassium Chloride Solution (12 g/L)	None known.
		Sodium Iodide Solution (10 g/L)	None known.
		Sodium Nitrite Solution (50 g/L)	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	nHexane Solvent Blank	Mono-constituent substance
		Potassium Dichromate Solution (600.6 mg/L)	Mixture
		Potassium Dichromate Solution (60.06 mg/L)	Mixture
		Sulfuric Acid Solution (.01N)	Mixture
		Toluene Solution (0.02%)	Mixture
		Potassium Chloride Solution (12 g/L)	Mixture
		Sodium Iodide Solution (10 g/L)	Mixture
		Sodium Nitrite Solution (50 g/L)	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
nHexane Solvent Blank n-Hexane	EC: 203-777-6 CAS: 110-54-3 Index: 601-037-00-0	100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[A]
Potassium Dichromate Solution (600.6 mg/L)				

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SECTION 3: Composition/information on ingredients

Sulphuric acid	EC: 231-639-5 CAS: 7664-93-9 Index: 016-020-00-8	<5	Skin Corr. 1A, H314	[1] [2]
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	EC: 231-639-5 CAS: 7664-93-9 Index: 016-020-00-8	<5	Skin Corr. 1A, H314	[1] [2]
Toluene Solution (0.02%) n-Hexane	EC: 203-777-6 CAS: 110-54-3 Index: 601-037-00-0	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
Sodium Iodide Solution (10 g/L) Sodium iodide	EC: 231-679-3 CAS: 7681-82-5	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 (thyroid) (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Sodium Nitrite Solution (50 g/L) Sodium nitrite	EC: 231-555-9 CAS: 7632-00-0 Index: 007-010-00-4	≤5	Ox. Sol. 3, H272 Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=1000) See Section 16 for the full text of the H statements declared above.	[1]

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: n-Hexane Solvent Blank	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.
	Potassium Dichromate Solution (600.6 mg/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Potassium Dichromate Solution (60.06 mg/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Sulfuric Acid Solution (.	Immediately flush eyes with plenty of water, occasionally

SECTION 4: First aid measures

01N)	lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Toluene Solution (0.02%)	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.
Potassium Chloride Solution (12 g/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Sodium Iodide Solution (10 g/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Sodium Nitrite Solution (50 g/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation : Hexane Solvent Blank	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. 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.
Potassium Dichromate Solution (600.6 mg/L)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Potassium Dichromate Solution (60.06 mg/L)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Sulfuric Acid Solution (.01N)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Toluene Solution (0.02%)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. 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.
Potassium Chloride Solution (12 g/L)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Sodium Iodide Solution (10 g/L)	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

SECTION 4: First aid measures

	Sodium Nitrite Solution (50 g/L)	collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Hexane Solvent Blank	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Potassium Dichromate Solution (600.6 mg/L)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Potassium Dichromate Solution (60.06 mg/L)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Sulfuric Acid Solution (.01N)	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Toluene Solution (0.02%)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Potassium Chloride Solution (12 g/L)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Sodium Iodide Solution (10 g/L)	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.
	Sodium Nitrite Solution (50 g/L)	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.
Ingestion	: Hexane Solvent Blank	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Potassium Dichromate Solution (600.6 mg/L)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

SECTION 4: First aid measures

Potassium Dichromate Solution (60.06 mg/L)	personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Sulfuric Acid Solution (.01N)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Toluene Solution (0.02%)	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Potassium Chloride Solution (12 g/L)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Sodium Iodide Solution (10 g/L)	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.
Sodium Nitrite Solution (50 g/L)	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 necessary, call a poison center or physician. 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.

SECTION 4: First aid measures

<p>Protection of first-aiders :</p> <p>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</p> <p>No action shall be taken involving any personal risk or without suitable training.</p> <p>No action shall be taken involving any personal risk or without suitable training.</p> <p>No action shall be taken involving any personal risk or without suitable training.</p> <p>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</p> <p>No action shall be taken involving any personal risk or without suitable training.</p> <p>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</p> <p>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</p>
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

<p>Eye contact :</p> <p>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
<p>Inhalation :</p> <p>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>

SECTION 4: First aid measures

Skin contact	:	Hexane Solvent Blank	Causes skin irritation.
		Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
		Toluene Solution (0.02%)	Causes skin irritation.
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Ingestion	:	Hexane Solvent Blank	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
		Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
		Toluene Solution (0.02%)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
		Sodium Nitrite Solution (50 g/L)	Harmful if swallowed.
<u>Over-exposure signs/symptoms</u>			
Eye contact	:	Hexane Solvent Blank	Adverse symptoms may include the following: pain or irritation watering redness
		Potassium Dichromate Solution (600.6 mg/L)	No specific data.
		Potassium Dichromate Solution (60.06 mg/L)	No specific data.
		Sulfuric Acid Solution (.01N)	No specific data.
		Toluene Solution (0.02%)	Adverse symptoms may include the following: pain or irritation watering redness
		Potassium Chloride Solution (12 g/L)	No specific data.
		Sodium Iodide Solution (10 g/L)	No specific data.
		Sodium Nitrite Solution (50 g/L)	No specific data.
Inhalation	:	Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
		Potassium Dichromate	No specific data.

SECTION 4: First aid measures

	Solution (600.6 mg/L)	
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Chloride Solution (12 g/L)	No specific data.
	Sodium Iodide Solution (10 g/L)	No specific data.
	Sodium Nitrite Solution (50 g/L)	No specific data.
Skin contact	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Dichromate Solution (600.6 mg/L)	No specific data.
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Chloride Solution (12 g/L)	No specific data.
	Sodium Iodide Solution (10 g/L)	No specific data.
	Sodium Nitrite Solution (50 g/L)	No specific data.
Ingestion	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Dichromate Solution (600.6 mg/L)	No specific data.
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Chloride Solution (12 g/L)	No specific data.

SECTION 4: First aid measures

Sodium Iodide Solution (10 g/L)	No specific data.
Sodium Nitrite Solution (50 g/L)	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Hexane Solvent Blank	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Potassium Dichromate Solution (600.6 mg/L)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Potassium Dichromate Solution (60.06 mg/L)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Sulfuric Acid Solution (.01N)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Toluene Solution (0.02%)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Potassium Chloride Solution (12 g/L)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Sodium Iodide Solution (10 g/L)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Sodium Nitrite Solution (50 g/L)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	Hexane Solvent Blank	No specific treatment.
		Potassium Dichromate Solution (600.6 mg/L)	No specific treatment.
		Potassium Dichromate Solution (60.06 mg/L)	No specific treatment.
		Sulfuric Acid Solution (.01N)	No specific treatment.
		Toluene Solution (0.02%)	No specific treatment.
		Potassium Chloride Solution (12 g/L)	No specific treatment.
		Sodium Iodide Solution (10 g/L)	No specific treatment.
		Sodium Nitrite Solution (50 g/L)	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Hexane Solvent Blank	Use dry chemical, CO ₂ , water spray (fog) or foam.
		Potassium Dichromate Solution (600.6 mg/L)	Use an extinguishing agent suitable for the surrounding fire.
		Potassium Dichromate Solution (60.06 mg/L)	Use an extinguishing agent suitable for the surrounding fire.
		Sulfuric Acid Solution (.01N)	Use an extinguishing agent suitable for the surrounding fire.
		Toluene Solution (0.02%)	Use dry chemical, CO ₂ , water spray (fog) or foam.
		Potassium Chloride Solution (12 g/L)	Use an extinguishing agent suitable for the surrounding fire.
		Sodium Iodide Solution (10 g/L)	Use an extinguishing agent suitable for the surrounding fire.
		Sodium Nitrite Solution (50 g/L)	Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

Unsuitable extinguishing media	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	Do not use water jet.
		Potassium Dichromate Solution (600.6 mg/L)	None known.
		Potassium Dichromate Solution (60.06 mg/L)	None known.
		Sulfuric Acid Solution (.01N)	None known.
		Toluene Solution (0.02%)	Do not use water jet.
		Potassium Chloride Solution (12 g/L)	None known.
		Sodium Iodide Solution (10 g/L)	None known.
		Sodium Nitrite Solution (50 g/L)	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly-grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
		Potassium Dichromate Solution (600.6 mg/L)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Potassium Dichromate Solution (60.06 mg/L)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Sulfuric Acid Solution (.01N)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Toluene Solution (0.02%)	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
		Potassium Chloride Solution (12 g/L)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Sodium Iodide Solution (10 g/L)	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
		Sodium Nitrite Solution (50 g/L)	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic

SECTION 5: Firefighting measures

Hazardous combustion products

:  Hexane Solvent Blank

life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Potassium Dichromate Solution (600.6 mg/L)

Decomposition products may include the following materials:
sulfur oxides

Potassium Dichromate Solution (60.06 mg/L)

Decomposition products may include the following materials:

Sulfuric Acid Solution (.01N)

sulfur oxides
No specific data.

Toluene Solution (0.02%)

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Potassium Chloride Solution (12 g/L)

Decomposition products may include the following materials:

halogenated compounds
metal oxide/oxides

Sodium Iodide Solution (10 g/L)

No specific data.

Sodium Nitrite Solution (50 g/L)

Decomposition products may include the following materials:

nitrogen oxides
metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

:  Hexane Solvent Blank

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.

Potassium Dichromate Solution (600.6 mg/L)

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.

Potassium Dichromate Solution (60.06 mg/L)

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.

Sulfuric Acid Solution (.01N)

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.

Toluene Solution (0.02%)

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.

Potassium Chloride Solution (12 g/L)

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.

Sodium Iodide Solution (10 g/L)

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.

Sodium Nitrite Solution (50 g/L)

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.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: Hexane Solvent Blank	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.
	Potassium Dichromate Solution (600.6 mg/L)	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.
	Potassium Dichromate Solution (60.06 mg/L)	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.
	Sulfuric Acid Solution (.01N)	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.
	Toluene Solution (0.02%)	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.
	Potassium Chloride Solution (12 g/L)	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.
	Sodium Iodide Solution (10 g/L)	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.
	Sodium Nitrite Solution (50 g/L)	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

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

SECTION 6: Accidental release measures

Solution (600.6 mg/L)	without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Potassium Dichromate Solution (60.06 mg/L)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Sulfuric Acid Solution (.01N)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Toluene Solution (0.02%)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Potassium Chloride Solution (12 g/L)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Sodium Iodide Solution (10 g/L)	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Sodium Nitrite Solution (50 g/L)	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : Hexane Solvent Blank	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".
Potassium Dichromate Solution (600.6 mg/L)	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".
Potassium Dichromate Solution (60.06 mg/L)	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".
Sulfuric Acid Solution (.01N)	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".
Toluene Solution (0.02%)	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".

SECTION 6: Accidental release measures

Potassium Chloride Solution (12 g/L)	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".
Sodium Iodide Solution (10 g/L)	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".
Sodium Nitrite Solution (50 g/L)	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

Hexane Solvent Blank	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Potassium Dichromate Solution (600.6 mg/L)	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).
Potassium Dichromate Solution (60.06 mg/L)	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).
Sulfuric Acid Solution (.01N)	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).
Toluene Solution (0.02%)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Potassium Chloride Solution (12 g/L)	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).
Sodium Iodide Solution (10 g/L)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Sodium Nitrite Solution (50 g/L)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

Methods for cleaning up	: Hexane Solvent Blank	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Potassium Dichromate Solution (600.6 mg/L)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Potassium Dichromate Solution (60.06 mg/L)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Sulfuric Acid Solution (.01N)	Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor.
	Toluene Solution (0.02%)	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Potassium Chloride Solution (12 g/L)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Sodium Iodide Solution (10 g/L)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Sodium Nitrite Solution (50 g/L)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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	: Hexane Solvent Blank	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use
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SECTION 7: Handling and storage

	explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements.
Potassium Dichromate Solution (600.6 mg/L)	Put on appropriate personal protective equipment (see Section 8).
Potassium Dichromate Solution (60.06 mg/L)	Put on appropriate personal protective equipment (see Section 8).
Sulfuric Acid Solution (.01N)	Put on appropriate personal protective equipment (see Section 8). Keep away from alkalis.
Toluene Solution (0.02%)	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Potassium Chloride Solution (12 g/L)	Put on appropriate personal protective equipment (see Section 8).
Sodium Iodide Solution (10 g/L)	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Sodium Nitrite Solution (50 g/L)	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SECTION 7: Handling and storage

Advice on general occupational hygiene

Hexane Solvent Blank	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.
Potassium Dichromate Solution (600.6 mg/L)	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.
Potassium Dichromate Solution (60.06 mg/L)	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.
Sulfuric Acid Solution (.01N)	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.
Toluene Solution (0.02%)	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.
Potassium Chloride Solution (12 g/L)	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.
Sodium Iodide Solution (10 g/L)	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.
Sodium Nitrite Solution (50 g/L)	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

Storage

Hexane Solvent Blank	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. Store locked up. 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
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SECTION 7: Handling and storage

Potassium Dichromate Solution (600.6 mg/L)	<p>incompatible materials before handling or use.</p> <p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Potassium Dichromate Solution (60.06 mg/L)	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Sulfuric Acid Solution (.01N)	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkalis. 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>
Toluene Solution (0.02%)	<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. Store locked up. 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>
Potassium Chloride Solution (12 g/L)	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Sodium Iodide Solution (10 g/L)	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials</p>

SECTION 7: Handling and storage

Sodium Nitrite Solution
(50 g/L)

before handling or use.

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

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
<input checked="" type="checkbox"/> Hexane Solvent Blank P5c E2	5000 200	50000 500
Toluene Solution (0.02%) P5c E2	5000 200	50000 500
Sodium Nitrite Solution (50 g/L) E1	100	200

7.3 Specific end use(s)

Recommendations

- Hexane Solvent Blank : Industrial applications, Professional applications.
- Potassium Dichromate Solution (600.6 mg/L) : Industrial applications, Professional applications.
- Potassium Dichromate Solution (60.06 mg/L) : Industrial applications, Professional applications.
- Sulfuric Acid Solution (.01N) : Industrial applications, Professional applications.
- Toluene Solution (0.02%) : Industrial applications, Professional applications.
- Potassium Chloride Solution (12 g/L) : Industrial applications, Professional applications.
- Sodium Iodide Solution (10 g/L) : Industrial applications, Professional applications.
- Sodium Nitrite Solution (50 g/L) : Industrial applications, Professional applications.

Industrial sector specific solutions

- Hexane Solvent Blank : Not applicable.
- Potassium Dichromate Solution (600.6 mg/L) : Not applicable.
- Potassium Dichromate Solution (60.06 mg/L) : Not applicable.
- Sulfuric Acid Solution (.01N) : Not applicable.
- Toluene Solution (0.02%) : Not applicable.
- Potassium Chloride Solution (12 g/L) : Not applicable.
- Sodium Iodide Solution (10 g/L) : Not applicable.
- Sodium Nitrite Solution (50 g/L) : Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 72 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.05 mg/m ³ 8 hours. Form: Solution
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.05 mg/m ³ 8 hours. Form: Solution
Toluene Solution (0.02%) n-Hexane	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 72 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.

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

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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

SECTION 8: Exposure controls/personal 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.
- 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

Physical state

- : Hexane Solvent Blank Liquid.
Potassium Dichromate Solution (600.6 mg/L) Liquid.
Potassium Dichromate Solution (60.06 mg/L) Liquid.
Sulfuric Acid Solution (.01N) Liquid.
Toluene Solution (0.02%) Liquid.
Potassium Chloride Solution (12 g/L) Liquid.
Sodium Iodide Solution (10 g/L) Liquid.
Sodium Nitrite Solution (50 g/L) Liquid.

Colour

- : Hexane Solvent Blank Colourless.
Potassium Dichromate Solution (600.6 mg/L) Not available.
Potassium Dichromate Solution (60.06 mg/L) Not available.
Sulfuric Acid Solution (.01N) Not available.
Toluene Solution (0.02%) Colourless.
Potassium Chloride Solution (12 g/L) Not available.
Sodium Iodide Solution (10 g/L) Not available.
Sodium Nitrite Solution (50 g/L) Not available.

SECTION 9: Physical and chemical properties

Odour	:	Hexane Solvent Blank	Gasoline-like [Slight]
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	Gasoline-like [Slight]
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
		Odour threshold	:
Potassium Dichromate Solution (600.6 mg/L)	Not available.		
Potassium Dichromate Solution (60.06 mg/L)	Not available.		
Sulfuric Acid Solution (.01N)	Not available.		
Toluene Solution (0.02%)	Not available.		
Potassium Chloride Solution (12 g/L)	Not available.		
Sodium Iodide Solution (10 g/L)	Not available.		
Sodium Nitrite Solution (50 g/L)	Not available.		
pH	:		
		Potassium Dichromate Solution (600.6 mg/L)	2.1
		Potassium Dichromate Solution (60.06 mg/L)	2.1
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	Not available.
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
		Melting point/freezing point	:
Potassium Dichromate Solution (600.6 mg/L)	>0°C		
Potassium Dichromate Solution (60.06 mg/L)	>0°C		
Sulfuric Acid Solution (.01N)	>0°C		
Toluene Solution (0.02%)	-139°C		
Potassium Chloride Solution (12 g/L)	0°C		
Sodium Iodide Solution (10 g/L)	0°C		
Sodium Nitrite Solution (50 g/L)	Not available.		

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	68.73°C
		Potassium Dichromate Solution (600.6 mg/L)	>100°C
		Potassium Dichromate Solution (60.06 mg/L)	>100°C
		Sulfuric Acid Solution (.01N)	>100°C
		Toluene Solution (0.02%)	69°C
		Potassium Chloride Solution (12 g/L)	100°C
		Sodium Iodide Solution (10 g/L)	100°C
		Sodium Nitrite Solution (50 g/L)	Not available.
		Flash point	:
Potassium Dichromate Solution (600.6 mg/L)	Not available.		
Potassium Dichromate Solution (60.06 mg/L)	Not available.		
Sulfuric Acid Solution (.01N)	Not available.		
Toluene Solution (0.02%)	Closed cup: -23.15°C		
Potassium Chloride Solution (12 g/L)	Not available.		
Sodium Iodide Solution (10 g/L)	Not available.		
Sodium Nitrite Solution (50 g/L)	Not available.		
Evaporation rate	:		
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	6.82 (butyl acetate = 1)
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
		Flammability (solid, gas)	:
Potassium Dichromate Solution (600.6 mg/L)	Not applicable.		
Potassium Dichromate Solution (60.06 mg/L)	Not applicable.		
Sulfuric Acid Solution (.01N)	Not applicable.		
Toluene Solution (0.02%)	Not applicable.		
Potassium Chloride Solution (12 g/L)	Not applicable.		
Sodium Iodide Solution (10 g/L)	Not applicable.		
Sodium Nitrite Solution (50 g/L)	Not applicable.		

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	:	Hexane Solvent Blank	Lower: 1.1%
			Upper: 7.5%
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	Lower: 1.1%
			Upper: 7.5%
		Potassium Chloride Solution (12 g/L)	Not available.
Vapour pressure	:	Hexane Solvent Blank	17 kPa [room temperature]
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	16.5 kPa [room temperature]
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
Vapour density	:	Hexane Solvent Blank	3 [Air = 1]
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	3 [Air = 1]
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
Relative density	:	Hexane Solvent Blank	0.7
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	Not available.
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.

SECTION 9: Physical and chemical properties

	Sodium Nitrite Solution (50 g/L)	Not available.
Solubility(ies)	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Soluble in the following materials: methanol, diethyl ether and acetone. Insoluble in the following materials: cold water and hot water.
	Potassium Dichromate Solution (600.6 mg/L)	Easily soluble in the following materials: cold water and hot water.
	Potassium Dichromate Solution (60.06 mg/L)	Easily soluble in the following materials: cold water and hot water.
	Sulfuric Acid Solution (.01N)	Easily soluble in the following materials: cold water and hot water.
	Toluene Solution (0.02%)	Insoluble in the following materials: cold water and hot water.
	Potassium Chloride Solution (12 g/L)	Easily soluble in the following materials: cold water and hot water.
	Sodium Iodide Solution (10 g/L)	Easily soluble in the following materials: cold water and hot water.
	Sodium Nitrite Solution (50 g/L)	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Hexane Solvent Blank	4
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Hexane Solvent Blank	225°C
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	224.85°C
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
Decomposition temperature	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Not available.
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride	Not available.

SECTION 9: Physical and chemical properties

	Solution (12 g/L)	
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
Viscosity	<input checked="" type="checkbox"/> Hexane Solvent Blank	Dynamic (room temperature): 0.3 mPa·s
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
Explosive properties	<input checked="" type="checkbox"/> Hexane Solvent Blank	Not available.
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
Oxidising properties	<input checked="" type="checkbox"/> Hexane Solvent Blank	Not available.
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: <input checked="" type="checkbox"/> Hexane Solvent Blank Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%) Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: <input checked="" type="checkbox"/> Hexane Solvent Blank Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%) Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Hexane Solvent Blank Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%) Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: <input checked="" type="checkbox"/> Hexane Solvent Blank Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas. No specific data. No specific data. No specific data. Avoid all possible sources of ignition (spark or flame). Do not

SECTION 10: Stability and reactivity

pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

Potassium Chloride Solution (12 g/L)
Sodium Iodide Solution (10 g/L)
Sodium Nitrite Solution (50 g/L)

No specific data.
No specific data.
No specific data.

10.5 Incompatible materials

Hexane Solvent Blank
Potassium Dichromate Solution (600.6 mg/L)
Potassium Dichromate Solution (60.06 mg/L)
Sulfuric Acid Solution (.01N)
Toluene Solution (0.02%)
Potassium Chloride Solution (12 g/L)
Sodium Iodide Solution (10 g/L)
Sodium Nitrite Solution (50 g/L)

Reactive or incompatible with the following materials:
oxidizing materials
May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.
Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials:
alkalis
Reactive or incompatible with the following materials:
oxidizing materials
May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

Potassium Dichromate Solution for UV
Potassium Dichromate Solution for Vis
Potassium Chloride Solution
Sodium Iodide Solution
Sodium Nitrite Solution
0.02% Toluene in Hexane
Hexane
0.01N Sulfuric Acid

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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

Product/ingredient name	Result	Species	Dose	Exposure
Hexane Solvent Blank n-Hexane	LC50 Inhalation Vapour	Rat - Male, Female	>31.86 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-

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Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-
Toluene Solution (0.02%) n-Hexane	LC50 Inhalation Vapour	Rat - Male, Female	>31.86 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Sodium Iodide Solution (10 g/L) Sodium iodide	LD50 Oral	Rat	4340 mg/kg	-
Sodium Nitrite Solution (50 g/L) Sodium nitrite	LC50 Inhalation Dusts and mists	Rat	5.5 mg/l	4 hours
	LD50 Oral	Rat	85 mg/kg	-

Acute toxicity estimates

Route	ATE value
Sodium Nitrite Solution (50 g/L) Oral	1782 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexane Solvent Blank n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 5 milligrams	-
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 5 milligrams	-
Toluene Solution (0.02%) n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
Sodium Iodide Solution (10 g/L) Sodium iodide	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Sodium Nitrite Solution (50 g/L) Sodium nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	Category 3	Not applicable.	Narcotic effects
Toluene Solution (0.02%) n-Hexane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	Category 2	Not determined	Not determined
Toluene Solution (0.02%) n-Hexane	Category 2	Not determined	Not determined
Sodium Iodide Solution (10 g/L) Sodium iodide	Category 1	Oral	thyroid

Aspiration hazard

Product/ingredient name	Result
<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	ASPIRATION HAZARD - Category 1
Toluene Solution (0.02%) Toluene Solution (0.02%) n-Hexane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure :

<input checked="" type="checkbox"/> Hexane Solvent Blank	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potassium Dichromate Solution (600.6 mg/L)	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potassium Dichromate Solution (60.06 mg/L)	Routes of entry anticipated: Oral, Dermal, Inhalation.
Sulfuric Acid Solution (.01N)	Routes of entry anticipated: Oral, Dermal, Inhalation.
Toluene Solution (0.02%)	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potassium Chloride Solution (12 g/L)	Not available.
Sodium Iodide Solution (10 g/L)	Routes of entry anticipated: Oral, Dermal, Inhalation.
Sodium Nitrite Solution (50 g/L)	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

SECTION 11: Toxicological information

Inhalation	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
		Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.	
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.	
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.	
		Toluene Solution (0.02%)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.	
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.	
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.	
	Ingestion	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
			Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.	
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.	
		Toluene Solution (0.02%)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.	
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.	
		Sodium Nitrite Solution (50 g/L)	Harmful if swallowed.	
Skin contact		:	<input checked="" type="checkbox"/> Hexane Solvent Blank	Causes skin irritation.
			Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.	
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.	
		Toluene Solution (0.02%)	Causes skin irritation.	
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.	
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.	
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.	
	Eye contact	:	<input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
			Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.	
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.	
		Toluene Solution (0.02%)	No known significant effects or critical hazards.	
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.	
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.	
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.	

SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations		
		Potassium Dichromate Solution (600.6 mg/L)	No specific data.		
		Potassium Dichromate Solution (60.06 mg/L)	No specific data.		
		Sulfuric Acid Solution (.01N)	No specific data.		
		Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations		
		Potassium Chloride Solution (12 g/L)	No specific data.		
		Sodium Iodide Solution (10 g/L)	No specific data.		
		Sodium Nitrite Solution (50 g/L)	No specific data.		
		Ingestion	:	Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
				Potassium Dichromate Solution (600.6 mg/L)	No specific data.
Potassium Dichromate Solution (60.06 mg/L)	No specific data.				
Sulfuric Acid Solution (.01N)	No specific data.				
Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations				
Potassium Chloride Solution (12 g/L)	No specific data.				
Sodium Iodide Solution (10 g/L)	No specific data.				
Sodium Nitrite Solution (50 g/L)	No specific data.				
Skin contact	:			Hexane Solvent Blank	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
				Potassium Dichromate	No specific data.

SECTION 11: Toxicological information

	Solution (600.6 mg/L)	
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Chloride Solution (12 g/L)	No specific data.
	Sodium Iodide Solution (10 g/L)	No specific data.
	Sodium Nitrite Solution (50 g/L)	No specific data.
Eye contact	: Hexane Solvent Blank	Adverse symptoms may include the following: pain or irritation watering redness
	Potassium Dichromate Solution (600.6 mg/L)	No specific data.
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: pain or irritation watering redness
	Potassium Chloride Solution (12 g/L)	No specific data.
	Sodium Iodide Solution (10 g/L)	No specific data.
	Sodium Nitrite Solution (50 g/L)	No specific data.

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

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

General	: Hexane Solvent Blank	May cause damage to organs through prolonged or repeated exposure.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	May cause damage to organs through prolonged or

SECTION 11: Toxicological information

		repeated exposure.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	No known significant effects or critical hazards.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	No known significant effects or critical hazards.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Teratogenicity	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	No known significant effects or critical hazards.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Developmental effects	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	No known significant effects or critical hazards.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	(10 g/L)	
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Fertility effects	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Suspected of damaging fertility.
	Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
	Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
	Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
	Toluene Solution (0.02%)	Suspected of damaging fertility.
	Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
	Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
Other information	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	Acute LC50 42500 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 36 ul/L Marine water	Fish - Agonus cataphractus	96 hours
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	Acute LC50 42500 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 36 ul/L Marine water	Fish - Agonus cataphractus	96 hours
Toluene Solution (0.02%) n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Sodium Iodide Solution (10 g/L) Sodium iodide	Acute LC50 0.17 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 860 mg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours

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SECTION 12: Ecological information

Sodium Nitrite Solution (50 g/L) Sodium nitrite	Acute EC50 159000 µg/l Marine water	Fry	
	Acute EC50 1600000 µg/l Marine water	Algae - Tetraselmis chuii	72 hours
	Acute LC50 1100 µg/l Fresh water	Algae - Tetraselmis chuii	96 hours
		Crustaceans - Cherax quadricarinatus	48 hours
	Acute LC50 0.16 µg/l Fresh water	Fish - Ictalurus punctatus - Fingerling	96 hours
Chronic NOEC 0.912 mg/l Marine water	Fish - Hippocampus abdominalis - Juvenile (Fledgling, Hatchling, Weanling)	35 days	

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sodium Nitrite Solution (50 g/L) Sodium nitrite	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
nHexane Solvent Blank n-Hexane	4	501.187	high
Toluene Solution (0.02%) n-Hexane	4	501.187	high
Sodium Iodide Solution (10 g/L) Sodium iodide	0.05	1020	high
Sodium Nitrite Solution (50 g/L) Sodium nitrite	-3.7	-	low

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 : Not applicable.

vPvB : Not applicable.

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

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.


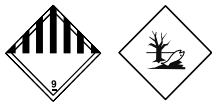

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	<input checked="" type="checkbox"/> Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 90

Limited quantity See SP 251

Special provisions 251, 340

Tunnel code (E)

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-A, _S-P_

Special provisions 251, 340

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960.

Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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SECTION 14: Transport 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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	<input checked="" type="checkbox"/> Hexane Solvent Blank	Not applicable.
	Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
	Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	Not applicable.
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Hexane Solvent Blank

P5c
E2

Toluene Solution (0.02%)

P5c
E2

Sodium Nitrite Solution (50 g/L)

E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

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SECTION 15: Regulatory information

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

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

Classification	Justification
<input checked="" type="checkbox"/> Hexane Solvent Blank Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	Regulatory data Regulatory data Regulatory data Regulatory data Regulatory data Regulatory data Regulatory data
Toluene Solution (0.02%) Flam. Liq. 2, H225 Skin Irrit. 2, H315	On basis of test data Calculation method

Date of issue/Date of revision : 13/03/2018

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SECTION 16: Other information

Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method Expert judgment Calculation method
Sodium Iodide Solution (10 g/L) Aquatic Chronic 3, H412	Calculation method
Sodium Nitrite Solution (50 g/L) Acute Tox. 4, H302 Aquatic Acute 1, H400	Calculation method Calculation method

[Full text of abbreviated H statements](#)

<p>Hexane Solvent Blank H225 H304 H315 H336 H361f H373 H411</p> <p>Potassium Dichromate Solution (600.6 mg/L) H314</p> <p>Potassium Dichromate Solution (60.06 mg/L) H314</p> <p>Toluene Solution (0.02%) H225 H304 H315 H336 H361f H373 H411</p> <p>Sodium Iodide Solution (10 g/L) H315 H319 H372 (oral) H400 H410 H412</p> <p>Sodium Nitrite Solution (50 g/L) H272 H301 H302 H400</p>	<p>Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.</p> <p>Causes severe skin burns and eye damage.</p> <p>Causes severe skin burns and eye damage.</p> <p>Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.</p> <p>Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.</p> <p>May intensify fire; oxidiser. Toxic if swallowed. Harmful if swallowed. Very toxic to aquatic life.</p>
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[Full text of classifications \[CLP/GHS\]](#)

SECTION 16: Other information

Hexane Solvent Blank

Aquatic Chronic 2, H411
 Asp. Tox. 1, H304
 Flam. Liq. 2, H225
 Repr. 2, H361f
 Skin Irrit. 2, H315
 STOT RE 2, H373

STOT SE 3, H336

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
 ASPIRATION HAZARD - Category 1
 FLAMMABLE LIQUIDS - Category 2
 REPRODUCTIVE TOXICITY (Fertility) - Category 2
 SKIN CORROSION/IRRITATION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

Potassium Dichromate Solution (600.6 mg/L)

Skin Corr. 1A, H314

SKIN CORROSION/IRRITATION - Category 1A

Potassium Dichromate Solution (60.06 mg/L)

Skin Corr. 1A, H314

SKIN CORROSION/IRRITATION - Category 1A

Toluene Solution (0.02%)

Aquatic Chronic 2, H411
 Asp. Tox. 1, H304
 Flam. Liq. 2, H225
 Repr. 2, H361f
 Skin Irrit. 2, H315
 STOT RE 2, H373

STOT SE 3, H336

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
 ASPIRATION HAZARD - Category 1
 FLAMMABLE LIQUIDS - Category 2
 REPRODUCTIVE TOXICITY (Fertility) - Category 2
 SKIN CORROSION/IRRITATION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

Sodium Iodide Solution (10 g/L)

Aquatic Acute 1, H400
 Aquatic Chronic 1, H410
 Aquatic Chronic 3, H412
 Eye Irrit. 2, H319
 Skin Irrit. 2, H315
 STOT RE 1, H372 (oral)

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
 SKIN CORROSION/IRRITATION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (oral) - Category 1

Sodium Nitrite Solution (50 g/L)

Acute Tox. 3, H301
 Acute Tox. 4, H302
 Aquatic Acute 1, H400
 Ox. Sol. 3, H272

ACUTE TOXICITY (oral) - Category 3
 ACUTE TOXICITY (oral) - Category 4
 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
 OXIDISING SOLIDS - Category 3

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