

# SAFETY DATA SHEET



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

## Section 1. Identification

<b>Product identifier</b>	: OQ - PV Chemicals Standards Kit 1, Part Number 5063-6503	
<b>Part no. (chemical kit)</b>	: 5063-6503	
<b>Part no.</b>	: 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

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

<b>Material uses</b>	: Reagents and Standards for Analytical Chemistry Laboratory Use	
	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

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

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

<b>Hexane Solvent Blank</b>	
H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H361	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

### Potassium Dichromate Solution (600.6 mg/L)

H314	SKIN CORROSION/IRRITATION - Category 1A
H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

## Section 2. Hazard(s) identification

### Potassium Dichromate Solution (60.06 mg/L)

H314 SKIN CORROSION/IRRITATION - Category 1A  
 H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
 H401 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2

### Toluene Solution (0.02%)

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN CORROSION/IRRITATION - Category 2  
 H361 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)

H402 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3  
 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3






### Sodium Nitrite Solution (50 g/L)

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

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%

### GHS label elements

#### Hazard pictograms

<input type="checkbox"/> Hexane Solvent Blank	
Potassium Dichromate Solution (600.6 mg/L)	
Potassium Dichromate Solution (60.06 mg/L)	
Toluene Solution (0.02%)	
Sodium Nitrite Solution (50 g/L)	

## Section 2. Hazard(s) identification

<b>Signal word</b>	:	Hexane Solvent Blank	DANGER	
		Potassium Dichromate Solution (600.6 mg/L)	DANGER	
		Potassium Dichromate Solution (60.06 mg/L)	DANGER	
		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	
	<b>Hazard statements</b>	:	Hexane Solvent Blank	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H361 - 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.
			Potassium Dichromate Solution (600.6 mg/L)	H314 - Causes severe skin burns and eye damage.  H400 - Very toxic to aquatic life. H412 - Harmful to aquatic life with long lasting effects.
		Potassium Dichromate Solution (60.06 mg/L)	H314 - Causes severe skin burns and eye damage.	
		Sulfuric Acid Solution (.01N)	H401 - Toxic to aquatic life.	
		Toluene Solution (0.02%)	No known significant effects or critical hazards. H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H361 - 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.	
		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.	
<b>Precautionary statements</b>				
<b>Prevention</b>	:	Hexane Solvent Blank	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapour.	

## Section 2. Hazard(s) identification

Potassium Dichromate Solution (600.6 mg/L)	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P273 - Avoid release to the environment.
Potassium Dichromate Solution (60.06 mg/L)	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P273 - Avoid release to the environment.
Sulfuric Acid Solution (.01N)	P264 - Wash hands thoroughly after handling.
Toluene Solution (0.02%)	Not applicable. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P264 - Wash hands thoroughly after handling.
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.  P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Hexane Solvent Blank	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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 or shower. P302 + P352 + P362 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. P332 + P313 - If skin irritation occurs: Get medical attention. P391 - Collect spillage.
Potassium Dichromate Solution (600.6 mg/L)	P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED:

### Response

: Hexane Solvent Blank

## Section 2. Hazard(s) identification

Potassium Dichromate Solution (60.06 mg/L)	<p>Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.</p> <p>P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.</p> <p>P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.</p> <p>P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.</p> <p>P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.</p>
Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	<p>Not applicable.</p> <p>P391 - Collect spillage.</p> <p>P314 - Get medical attention if you feel unwell.</p> <p>P308 + P313 - IF exposed or concerned: Get medical attention.</p> <p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</p> <p>P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P362 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p>
Potassium Chloride Solution (12 g/L)	Not applicable.
Sodium Iodide Solution (10 g/L)	Not applicable.
Sodium Nitrite Solution (50 g/L)	<p>P391 - Collect spillage.</p> <p>P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.</p>

## Section 2. Hazard(s) identification

<b>Storage</b>	:	Hexane Solvent Blank	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.		
		Potassium Dichromate Solution (600.6 mg/L)	P405 - Store locked up.		
		Potassium Dichromate Solution (60.06 mg/L)	P405 - Store locked up.		
		Sulfuric Acid Solution (.01N)	Not applicable.		
		Toluene Solution (0.02%)	P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.		
		Potassium Chloride Solution (12 g/L)	Not applicable.		
		Sodium Iodide Solution (10 g/L)	Not applicable.		
		Sodium Nitrite Solution (50 g/L)	Not applicable.		
		<b>Disposal</b>	:	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)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Potassium Dichromate Solution (60.06 mg/L)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.				
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.				
<b>Supplemental label elements</b>	<b>Additional warning phrases</b>			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.		
		<b>Other hazards which do not result in classification</b>	:	Hexane 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.				

## Section 2. Hazard(s) identification

Sulfuric Acid Solution (.01N) None known.  
 Toluene Solution (0.02%) None known.  
 Potassium Chloride Solution None known.  
 (12 g/L)  
 Sodium Iodide Solution (10 g/ None known.  
 L)  
 Sodium Nitrite Solution (50 g/ None known.  
 L)

## Section 3. Composition and ingredient information

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

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<input checked="" type="checkbox"/> <b>Hexane Solvent Blank</b> n-Hexane	100	110-54-3
<input checked="" type="checkbox"/> <b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	≤5	7664-93-9
Potassium dichromate	<0.1	7778-50-9
<input checked="" type="checkbox"/> <b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	≤5	7664-93-9
Potassium dichromate	<0.01	7778-50-9
<input checked="" type="checkbox"/> <b>Toluene Solution (0.02%)</b> n-Hexane	≥90	110-54-3
<input checked="" type="checkbox"/> <b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	<1	7681-82-5
<input checked="" type="checkbox"/> <b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	≤5	7632-00-0

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.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

## Section 4. First aid measures

<b>Eye contact</b>	: 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)	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
	Potassium Dichromate Solution (60.06 mg/L)	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
	Sulfuric Acid Solution (.01N)	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.
	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.
<b>Inhalation</b>	: 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)	Get medical attention immediately. Call a poison center or physician. 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



## Section 4. First aid measures

Potassium Dichromate Solution (60.06 mg/L)	<p>providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p> <p>Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
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 collar, tie, belt or waistband.
Sodium Nitrite Solution (50 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 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

## Section 4. First aid measures

### Skin contact

:  Hexane Solvent Blank

48 hours.

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)

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Potassium Dichromate Solution (60.06 mg/L)

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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)

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

## Section 4. First aid measures

Potassium Dichromate Solution (60.06 mg/L)	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. Chemical burns must be treated promptly by a 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. 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. 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. Chemical burns must be treated promptly by a 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.
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

## Section 4. First aid measures

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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

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 known significant effects or critical hazards. Causes serious eye damage. Causes serious eye damage. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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##### Inhalation

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)	: : : : : : : :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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## Section 4. First aid measures

<b>Skin contact</b>	:	Hexane Solvent Blank	Causes skin irritation.
		Potassium Dichromate Solution (600.6 mg/L)	Causes severe burns.
		Potassium Dichromate Solution (60.06 mg/L)	Causes severe burns.
		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.
<b>Ingestion</b>	:	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.
<b>Over-exposure signs/symptoms</b>	:	Hexane Solvent Blank	Adverse symptoms may include the following: pain or irritation watering redness
		Potassium Dichromate Solution (600.6 mg/L)	Adverse symptoms may include the following:  pain watering redness
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  pain watering redness
		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.
<b>Eye contact</b>	:	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)	Adverse symptoms may include the following:  pain watering redness
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  pain watering redness
		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.
<b>Inhalation</b>	:	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)	Adverse symptoms may include the following:  pain watering redness
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  pain watering redness
		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.

## Section 4. First aid measures

	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.
<b>Skin contact</b>	<b>Hexane Solvent Blank</b>	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
	Potassium Dichromate Solution (600.6 mg/L)	Adverse symptoms may include the following:  pain or irritation redness blistering may occur
	Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  pain or irritation redness blistering may occur
	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.
<b>Ingestion</b>	<b>Hexane Solvent Blank</b>	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)	Adverse symptoms may include the following:  stomach pains
	Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  stomach pains
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting

## Section 4. First aid measures

	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.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	:	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.

<b>Specific treatments</b>	:	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.

<b>Protection of first-aiders</b>	:	Hexane Solvent Blank	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.
		Potassium Dichromate Solution (600.6 mg/L)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

## Section 4. First aid measures

Potassium Dichromate Solution (60.06 mg/L)	before removing it, or wear gloves. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Sulfuric Acid Solution (.01N)	No action shall be taken involving any personal risk or without suitable training.
Toluene Solution (0.02%)	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.
Potassium Chloride Solution (12 g/L)	No action shall be taken involving any personal risk or without suitable training.
Sodium Iodide Solution (10 g/L)	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.
Sodium Nitrite Solution (50 g/L)	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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Hexane Solvent Blank	Use dry chemical, CO <sub>2</sub> , 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 <sub>2</sub> , 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.

#### Unsuitable extinguishing media

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.



## Section 5. Firefighting measures

**Specific hazards arising from the chemical**

: 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. This material is very toxic to aquatic life. 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.

Potassium Dichromate Solution (60.06 mg/L)

In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

## Section 5. Firefighting measures

### Hazardous thermal decomposition products

:  Hexane Solvent Blank	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: sulfur oxides
Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	No specific data. 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

### Special protective actions 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

<b>Special protective equipment for fire-fighters</b>	: 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.
	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.
	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.
	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.
	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.
	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.
	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.
	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.
<b>Hazchem code</b>	: Hexane Solvent Blank	3YE
	Potassium Dichromate Solution (600.6 mg/L)	•3Z
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	3YE
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	•3Z

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 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 Solution (600.6 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

## Section 6. Accidental release measures

Potassium Dichromate Solution (60.06 mg/L)	through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
<b>For emergency responders :</b> 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

## Section 6. Accidental release measures

Toluene Solution (0.02%)	spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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".

### Environmental precautions : Hexane Solvent Blank

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
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). Water polluting material. May be harmful to the environment if released in large quantities.
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.

## Section 6. Accidental release measures

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.

### Methods and material for containment and cleaning up

Methods for cleaning up : Hexane Solvent Blank

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.

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.

## Section 7. Handling and storage

### 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 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). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

Potassium Dichromate Solution (60.06 mg/L)

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

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.

## Section 7. Handling and storage

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.
<b>Advice on general occupational hygiene</b>	
: 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



## Section 7. Handling and storage

Potassium Chloride Solution (12 g/L)	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.

**Conditions for safe storage, including any incompatibilities** : Hexane Solvent Blank

Potassium Dichromate Solution (600.6 mg/L)	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.
Potassium Dichromate Solution (60.06 mg/L)	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. Store locked up. 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.
Sulfuric Acid Solution (.01N)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a

## Section 7. Handling and storage

Toluene Solution (0.02%)

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.

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.

Potassium Chloride Solution  
(12 g/L)

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.

Sodium Iodide Solution (10 g/L)

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.

Sodium Nitrite Solution (50 g/L)

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.

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> <b>Hexane Solvent Blank</b> n-Hexane	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 72 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid  Potassium dichromate	<b>Safe Work Australia (Australia, 1/2014).</b> STEL: 3 mg/m <sup>3</sup> 15 minutes. TWA: 1 mg/m <sup>3</sup> 8 hours. <b>Safe Work Australia (Australia, 1/2014).</b> <b>Skin sensitizer.</b> TWA: 0.05 mg/m <sup>3</sup> , (as Cr) 8 hours.
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid  Potassium dichromate	<b>Safe Work Australia (Australia, 1/2014).</b> STEL: 3 mg/m <sup>3</sup> 15 minutes. TWA: 1 mg/m <sup>3</sup> 8 hours. <b>Safe Work Australia (Australia, 1/2014).</b> <b>Skin sensitizer.</b> TWA: 0.05 mg/m <sup>3</sup> , (as Cr) 8 hours.
<b>Toluene Solution (0.02%)</b> n-Hexane	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 72 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 0.01 ppm 8 hours. Form: Inhalable fraction and vapor

### [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.

### [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.

### [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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### [Skin protection](#)

## Section 8. Exposure controls and 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.

## Section 9. 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. |
- 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.         |

## Section 9. Physical and chemical properties

<b>Odour threshold</b>	:	Hexane Solvent Blank	65 to 248 ppm
		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.
<b>pH</b>	:	Hexane Solvent Blank	Not available.
		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.
<b>Melting point</b>	:	Hexane Solvent Blank	-95.35°C (-139.6°F)
		Potassium Dichromate Solution (600.6 mg/L)	>0°C (>32°F)
		Potassium Dichromate Solution (60.06 mg/L)	>0°C (>32°F)
		Sulfuric Acid Solution (.01N)	>0°C (>32°F)
		Toluene Solution (0.02%)	-139°C (-218.2°F)
		Potassium Chloride Solution (12 g/L)	0°C (32°F)
		Sodium Iodide Solution (10 g/L)	0°C (32°F)
		Sodium Nitrite Solution (50 g/L)	Not available.
<b>Boiling point</b>	:	Hexane Solvent Blank	68.73°C (155.7°F)
		Potassium Dichromate Solution (600.6 mg/L)	>100°C (>212°F)
		Potassium Dichromate Solution (60.06 mg/L)	>100°C (>212°F)
		Sulfuric Acid Solution (.01N)	>100°C (>212°F)
		Toluene Solution (0.02%)	69°C (156.2°F)
		Potassium Chloride Solution (12 g/L)	100°C (212°F)
		Sodium Iodide Solution (10 g/L)	100°C (212°F)
		Sodium Nitrite Solution (50 g/L)	Not available.
<b>Flash point</b>	:	Hexane Solvent Blank	Closed cup: -22°C (-7.6°F)
		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 (-9.7°F)
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.

## Section 9. Physical and chemical properties

		L) Sodium Nitrite Solution (50 g/ L) Not available.
<b>Evaporation rate</b>	:	<input checked="" type="checkbox"/> Hexane Solvent Blank 6.82 (butyl acetate = 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%) 6.82 (butyl acetate = 1) Potassium Chloride Solution (12 g/L) Not available. Sodium Iodide Solution (10 g/ L) Not available. L) Sodium Nitrite Solution (50 g/ L) Not available.
<b>Flammability (solid, gas)</b>	:	<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. L) Sodium Nitrite Solution (50 g/ L) Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	:	<input checked="" type="checkbox"/> 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. Sodium Iodide Solution (10 g/ L) Not available. L) Sodium Nitrite Solution (50 g/ L) Not available.
<b>Vapour pressure</b>	:	<input checked="" type="checkbox"/> Hexane Solvent Blank 17 kPa (127.51 mm Hg) [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 (124 mm Hg) [room temperature] Potassium Chloride Solution (12 g/L) Not available. Sodium Iodide Solution (10 g/ L) Not available. L) Sodium Nitrite Solution (50 g/ L) Not available.
<b>Vapour density</b>	:	

## Section 9. Physical and chemical properties

	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.
<b>Relative density</b>	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.
	Sodium Nitrite Solution (50 g/L)	Not available.
<b>Solubility</b>	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.
<b>Partition coefficient: n-octanol/water</b>	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.

## Section 9. Physical and chemical properties

<b>Auto-ignition temperature</b>	:	Hexane Solvent Blank	225°C (437°F)		
		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 (436.7°F)		
		Potassium Chloride Solution (12 g/L)	Not available.		
		Sodium Iodide Solution (10 g/L)	Not available.		
		Sodium Nitrite Solution (50 g/L)	Not available.		
		<b>Decomposition temperature</b>	:	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.				
<b>Viscosity</b>	:			Hexane Solvent Blank	Dynamic (room temperature): 0.3 mPa·s (0.3 cP)
				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.		

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	Hexane Solvent Blank	No specific test data related to reactivity available for this product or its ingredients.
		Potassium Dichromate Solution (600.6 mg/L)	No specific test data related to reactivity available for this product or its ingredients.
		Potassium Dichromate Solution (60.06 mg/L)	No specific test data related to reactivity available for this product or its ingredients.
		Sulfuric Acid Solution (.01N)	No specific test data related to reactivity available for this product or its ingredients.
		Toluene Solution (0.02%)	No specific test data related to reactivity available for this product or its ingredients.
		Potassium Chloride Solution (12 g/L)	No specific test data related to reactivity available for this product or its ingredients.
		Sodium Iodide Solution (10 g/L)	No specific test data related to reactivity available for this product or its ingredients.
		Sodium Nitrite Solution (50 g/L)	No specific test data related to reactivity available for this product or its ingredients.



## Section 10. Stability and reactivity

<b>Chemical stability</b>	: <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. The product is stable.
<b>Possibility of hazardous reactions</b>	: <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. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: <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)	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 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.
<b>Incompatible materials</b>	: <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)	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.

## Section 10. Stability and reactivity

Reactive or incompatible with the following materials:  
alkalis

Toluene Solution (0.02%)	Reactive or incompatible with the following materials: oxidizing materials
Potassium Chloride Solution (12 g/L)	May react or be incompatible with oxidising materials.
Sodium Iodide Solution (10 g/L)	May react or be incompatible with oxidising materials.
Sodium Nitrite Solution (50 g/L)	May react or be incompatible with oxidising materials.

### Hazardous decomposition products

Hexane Solvent Blank	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Potassium Dichromate Solution (600.6 mg/L)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Potassium Dichromate Solution (60.06 mg/L)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Sulfuric Acid Solution (.01N)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Toluene Solution (0.02%)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Potassium Chloride Solution (12 g/L)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Sodium Iodide Solution (10 g/L)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Sodium Nitrite Solution (50 g/L)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 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 Potassium dichromate	LD50 Oral	Rat	2140 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	83.2 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	14 mg/kg	-
	LD50 Oral	Rat	25 mg/kg	-
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid Potassium dichromate	LD50 Oral	Rat	2140 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	83.2 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	14 mg/kg	-
	LD50 Oral	Rat	25 mg/kg	-
Toluene Solution (0.02%)				

## Section 11. Toxicological information

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	-
<b>Sodium Iodide Solution (10 g/L)</b>				
Sodium iodide	LD50 Oral	Rat	4340 mg/kg	-
<b>Sodium Nitrite Solution (50 g/L)</b>				
Sodium nitrite	LC50 Inhalation Dusts and mists	Rat	5.5 mg/l	4 hours
	LD50 Oral	Rat	85 mg/kg	-

### Irritation/Corrosion

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

### Sensitisation

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

## Section 11. Toxicological information

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>nHexane Solvent Blank</b> n-Hexane	Category 3	Not applicable.	Narcotic effects
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 3	Not applicable.	Narcotic effects
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>nHexane Solvent Blank</b> n-Hexane	Category 2	Not determined	Not determined
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Potassium dichromate	Category 1	Not determined	Not determined
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Potassium dichromate	Category 1	Not determined	Not determined
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 2	Not determined	Not determined
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Category 1	Oral	thyroid

### Aspiration hazard

Name	Result
<b>nHexane Solvent Blank</b> n-Hexane	ASPIRATION HAZARD - Category 1
<b>Toluene Solution (0.02%)</b> Toluene Solution (0.02%) n-Hexane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** :

- nHexane 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

<b>Eye contact</b>	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No known significant effects or critical hazards.
	Potassium Dichromate Solution (600.6 mg/L)	Causes serious eye damage.
	Potassium Dichromate Solution (60.06 mg/L)	Causes serious eye damage.
	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.
<b>Inhalation</b>	: <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.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Causes skin irritation.
	Potassium Dichromate Solution (600.6 mg/L)	Causes severe burns.
	Potassium Dichromate Solution (60.06 mg/L)	Causes severe burns.
	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.
<b>Ingestion</b>	: <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.

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

## Section 11. Toxicological information

<b>Eye contact</b>	:	Hexane Solvent Blank	Adverse symptoms may include the following: pain or irritation watering redness
		Potassium Dichromate Solution (600.6 mg/L)	Adverse symptoms may include the following:  pain watering redness
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  pain watering redness
		Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
		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.
<b>Inhalation</b>	:	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) Potassium Dichromate Solution (60.06 mg/L)	No specific data. No specific data.
		Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	No specific data. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
		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.
	<b>Skin contact</b>	:	Hexane Solvent Blank
		Potassium Dichromate Solution (600.6 mg/L)	Adverse symptoms may include the following:  pain or irritation

## Section 11. Toxicological information

	Potassium Dichromate Solution (60.06 mg/L)	redness blistering may occur Adverse symptoms may include the following:  pain or irritation redness blistering may occur
	Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	No specific data. Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
	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.
<b>Ingestion</b>	<b>☑</b> 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)	Adverse symptoms may include the following:  stomach pains
	Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:  stomach pains
	Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	No specific data. Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
	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.

### 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

## Section 11. Toxicological information

<b>General</b>	:	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 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.	
	<b>Carcinogenicity</b>	:	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.	
<b>Mutagenicity</b>		:	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.	
	<b>Teratogenicity</b>	:	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.	
<b>Developmental effects</b>		:	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	No known significant effects or critical hazards.	



## Section 11. Toxicological information

	(12 g/L)	
	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.
<b>Fertility effects</b>	: n-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.

### Numerical measures of toxicity

#### Acute toxicity estimates

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

<b>Other information</b>	: n-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

### Toxicity

Product/ingredient name	Result	Species	Exposure
n-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
Potassium dichromate	Acute LC50 36 µl/L Marine water	Fish - Agonus cataphractus	96 hours
	Acute EC50 0.51 µg/l Fresh water	Algae - Stephanodiscus hantzschii - Exponential growth phase	96 hours
	Acute EC50 65.7 µg/l	Algae - Pseudokirchneriella	72 hours

## Section 12. Ecological information

	Acute EC50 29610 µg/l Fresh water	subcapitata Aquatic plants - Lemna minor - Exponential growth phase	4 days
	Acute EC50 19.9 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 73 µg/l Fresh water	Fish - Notemigonus crysoleucas	96 hours
	Acute LC50 0.002 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic NOEC 0.01 ug/ml Fresh water	Aquatic plants - Eichhornia crassipes - Young	96 hours
	Chronic NOEC 18 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.71 mg/l Fresh water	Fish - Channa punctata - Adult	30 days
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	Acute LC50 42500 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
Potassium dichromate	Acute LC50 36 ul/L Marine water	Fish - Agonus cataphractus	96 hours
	Acute EC50 0.51 µg/l Fresh water	Algae - Stephanodiscus hantzschii - Exponential growth phase	96 hours
	Acute EC50 65.7 µg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 29610 µg/l Fresh water	Aquatic plants - Lemna minor - Exponential growth phase	4 days
	Acute EC50 19.9 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 73 µg/l Fresh water	Fish - Notemigonus crysoleucas	96 hours
	Acute LC50 0.002 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic NOEC 0.01 ug/ml Fresh water	Aquatic plants - Eichhornia crassipes - Young	96 hours
	Chronic NOEC 18 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.71 mg/l Fresh water	Fish - Channa punctata - Adult	30 days
<b>Toluene Solution (0.02%)</b> n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Sodium Iodide Solution (10 g/L)</b> 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 - Fry	96 hours
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Acute EC50 159000 µg/l Marine water	Algae - Tetraselmis chuii	72 hours
	Acute EC50 1600000 µg/l Marine water	Algae - Tetraselmis chuii	96 hours
	Acute LC50 1100 µg/l Fresh water	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

### Persistence and degradability

## Section 12. Ecological information

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

### Bioaccumulative potential

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

### Mobility in soil





**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

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

## Section 14. Transport information

	ADG	IMDG	IATA
<b>UN number</b>	UN3316	UN3316	UN3316
<b>UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
<b>Transport hazard class(es)</b>	9 	9  	9 
<b>Packing group</b>	II	II	II

## Section 14. Transport information

<b>Environmental hazards</b>	<input checked="" type="checkbox"/> Yes. The environmentally hazardous substance mark is not required.	Yes.	<input checked="" type="checkbox"/> Yes. The environmentally hazardous substance mark is not required.
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### Additional information

<b>ADG</b>	: <b>Hazchem code</b> 2Z <b>Special provisions</b> 251, 340
<b>IMDG</b>	: <input checked="" type="checkbox"/> The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <b>Emergency schedules</b> F-A, _S-P_ <b>Special provisions</b> 251, 340
<b>IATA</b>	: <input checked="" type="checkbox"/> The environmentally hazardous substance mark may appear if required by other transportation regulations. <b>Quantity limitation</b> 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. <b>Special provisions</b> A44, A163

**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.

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

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

6, 5

### Model Work Health and Safety Regulations - Scheduled Substances

<b>Ingredient name</b>	<b>Schedule</b>
<b>Sodium Nitrite Solution (50 g/L)</b> sodium nitrite	Restricted hazardous chemical [For wet abrasive blasting]

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> All components are listed or exempted. <b>Japan inventory (ISHL):</b> All components are listed or exempted.

## Section 15. Regulatory information

<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

<b>Date of issue/Date of revision</b>	: 13/03/2018
<b>Date of previous issue</b>	: 10/03/2016
<b>Version</b>	: 5

### Key to abbreviations

ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> <b>n-Hexane Solvent Blank</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 2, H401	Calculation method Calculation method Calculation method
<b>Toluene Solution (0.02%)</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 (Fertility) STOT SE 3, H336 STOT RE 2, H373	On basis of test data Calculation method Calculation method Calculation method Calculation method

## Section 16. Any other relevant information

Asp. Tox. 1, H304 Aquatic Chronic 2, H411  <b>Sodium Iodide Solution (10 g/L)</b> Aquatic Acute 3, H402 Aquatic Chronic 3, H412  <b>Sodium Nitrite Solution (50 g/L)</b> Acute Tox. 4, H302 Aquatic Acute 1, H400	Expert judgment Calculation method  Calculation method Calculation method  Calculation method Calculation method
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**References** : Not available.

 Indicates information that has changed from previously issued version.

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