

# SAFETY DATA SHEET

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

## Section 1. Identification

### 1.1 Product identifier

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

**Validation date** : 3/13/2018

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

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

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

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
5301 Stevens Creek Blvd  
Santa Clara, CA 95051, USA  
800-227-9770

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b>	: <input checked="" type="checkbox"/> Hexane Solvent Blank	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Potassium Dichromate Solution (600.6 mg/L)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Potassium Dichromate Solution (60.06 mg/L)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Sulfuric Acid Solution (.01N)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

## Section 2. Hazards identification

Toluene Solution (0.02%)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potassium Chloride Solution (12 g/L)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Sodium Iodide Solution (10 g/L)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Sodium Nitrite Solution (50 g/L)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

#### **Hexane Solvent Blank**

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN IRRITATION - Category 2
H320	EYE IRRITATION - Category 2B
H361	TOXIC TO REPRODUCTION (Fertility) - Category 2
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2
H304	ASPIRATION HAZARD - Category 1

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

H350	CARCINOGENICITY - Category 1A
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#### **Potassium Dichromate Solution (60.06 mg/L)**

H350	CARCINOGENICITY - Category 1A
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#### **Toluene Solution (0.02%)**

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN IRRITATION - Category 2
H320	EYE IRRITATION - Category 2B
H361	TOXIC TO REPRODUCTION (Fertility) - Category 2
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2
H304	ASPIRATION HAZARD - Category 1

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






H302	ACUTE TOXICITY (oral) - Category 4
H371	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (blood system) - Category 2

## Section 2. Hazards identification

<b>Ingredients of unknown toxicity</b>	<input checked="" type="checkbox"/> Potassium Dichromate Solution (600.6 mg/L)	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
	<input checked="" type="checkbox"/> Potassium Dichromate Solution (60.06 mg/L)	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
	<input checked="" type="checkbox"/> Potassium Chloride Solution (12 g/L)	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
	<input checked="" type="checkbox"/> Potassium Chloride Solution (12 g/L)	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
	<input checked="" type="checkbox"/> Sodium Nitrite Solution (50 g/L)	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%

### 2.2 GHS label elements

#### Hazard pictograms

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

#### Signal word

<input checked="" type="checkbox"/> Hexane Solvent Blank	Danger
<input checked="" type="checkbox"/> Potassium Dichromate Solution (600.6 mg/L)	Danger
<input checked="" type="checkbox"/> Potassium Dichromate Solution (60.06 mg/L)	Danger
<input checked="" type="checkbox"/> Sulfuric Acid Solution (.01N)	No signal word.
<input checked="" type="checkbox"/> Toluene Solution (0.02%)	Danger
<input checked="" type="checkbox"/> Potassium Chloride Solution (12 g/L)	No signal word.
<input checked="" type="checkbox"/> Sodium Iodide Solution (10 g/L)	No signal word.
<input checked="" type="checkbox"/> Sodium Nitrite Solution (50 g/L)	Warning

#### Hazard statements

<input checked="" type="checkbox"/> Hexane Solvent Blank	H225 - Highly flammable liquid and vapor. H315 + H320 - Causes skin and eye irritation. H361 - Suspected of damaging fertility. H304 - May be fatal if swallowed and enters airways. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system,
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## Section 2. Hazards identification

Potassium Dichromate Solution (600.6 mg/L)	peripheral nervous system) H350 - May cause cancer.
Potassium Dichromate Solution (60.06 mg/L)	H350 - May cause cancer.
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
Toluene Solution (0.02%)	H225 - Highly flammable liquid and vapor. H315 + H320 - Causes skin and eye irritation. H361 - Suspected of damaging fertility. H304 - May be fatal if swallowed and enters airways. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system, peripheral nervous system)
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)	H302 - Harmful if swallowed. H371 - May cause damage to organs. (blood system)
<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. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. 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. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling.
Potassium Dichromate Solution (600.6 mg/L)	P201 - Obtain special instructions before use.  P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Potassium Dichromate Solution (60.06 mg/L)	P201 - Obtain special instructions before use.  P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Sulfuric Acid Solution (.01N)	Not applicable.
Toluene Solution (0.02%)	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face

## Section 2. Hazards identification

		<p>protection. Wear protective clothing.</p> <p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P233 - Keep container tightly closed.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P260 - Do not breathe vapor.</p> <p>P264 - Wash hands thoroughly after handling.</p> <p>Not applicable.</p>
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	P260 - Do not breathe vapor.
	Sodium Nitrite Solution (50 g/L)	P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash hands thoroughly after handling.
		P314 - Get medical attention if you feel unwell.
		P308 + P313 - IF exposed or concerned: Get medical attention.
		P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep 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+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
		P332 + P313 - If skin irritation occurs: Get medical attention.
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical attention.
	Potassium Dichromate Solution (600.6 mg/L)	P308 + P313 - IF exposed or concerned: Get medical attention.
	Potassium Dichromate Solution (60.06 mg/L)	P308 + P313 - IF exposed or concerned: Get medical attention.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	P314 - Get medical attention if you feel unwell.
		P308 + P313 - IF exposed or concerned: Get medical attention.
		P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
		P301 + P310 + P331 - IF SWALLOWED:
<b>Response</b>	: Hexane Solvent Blank	

## Section 2. Hazards identification

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+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Potassium Chloride Solution (12 g/L)

Not applicable.

Sodium Iodide Solution (10 g/L)

Not applicable.

Sodium Nitrite Solution (50 g/L)

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or physician.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

### Storage

: Hexane Solvent Blank

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

Potassium Dichromate Solution (600.6 mg/L)

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)

P405 - Store locked up.

### Disposal

: 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)

Not applicable.

Sodium Nitrite Solution (50 g/L)

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazards identification

### Supplemental label elements

<p><b>n</b>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p>
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### 2.3 Other hazards

#### Hazards not otherwise classified

<p><b>n</b>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire or explosion.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p> <p>None known.</p>
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## Section 3. Composition/information on ingredients

### Substance/mixture

<p><b>n</b>Hexane Solvent Blank</p> <p>Potassium Dichromate Solution (600.6 mg/L)</p> <p>Potassium Dichromate Solution (60.06 mg/L)</p> <p>Sulfuric Acid Solution (.01N)</p> <p>Toluene Solution (0.02%)</p> <p>Potassium Chloride Solution (12 g/L)</p> <p>Sodium Iodide Solution (10 g/L)</p> <p>Sodium Nitrite Solution (50 g/L)</p>	<p>Substance</p> <p>Mixture</p> <p>Mixture</p> <p>Mixture</p> <p>Mixture</p> <p>Mixture</p> <p>Mixture</p> <p>Mixture</p>
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Ingredient name	%	CAS number
<b>n</b> Hexane Solvent Blank n-Hexane	100	110-54-3
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	<5	7664-93-9
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	<5	7664-93-9
<b>Toluene Solution (0.02%)</b> n-Hexane	≥90	110-54-3
<b>Potassium Chloride Solution (12 g/L)</b>		

## Section 3. Composition/information on ingredients

Potassium chloride	≤3	7447-40-7
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	≤5	7632-00-0


Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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

### 4.1 Description of necessary 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)	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 (60.06 mg/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	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. 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 following exposure or if feeling unwell. If necessary, call a poison center or physician.



## Section 4. First aid measures

### Inhalation

: Hexane Solvent Blank

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

Potassium Dichromate Solution  
(600.6 mg/L)

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

Potassium Dichromate Solution  
(60.06 mg/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 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)

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

## Section 4. First aid measures

		position comfortable for breathing. Get medical attention if symptoms occur.
	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 following exposure or if feeling unwell. 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. 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>Skin contact</b>	:  Hexane Solvent Blank	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Potassium Dichromate Solution (600.6 mg/L)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Potassium Dichromate Solution (60.06 mg/L)	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. Get medical attention. 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.
	Sodium Nitrite Solution (50 g/L)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

### Ingestion

: Hexane Solvent Blank

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

Potassium Dichromate Solution  
(600.6 mg/L)

Wash out mouth with water. Remove 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. 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  
(60.06 mg/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. 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

## Section 4. First aid measures

	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 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 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.

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

#### Potential acute health effects


<b>Eye contact</b>	:	Hexane Solvent Blank	Causes eye irritation.
		Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
		Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
		Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
		Toluene Solution (0.02%)	Causes eye irritation.
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.

## Section 4. First aid measures


<b>Inhalation</b>	:	Hexane Solvent Blank	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. 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%)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.		
		Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.		
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.		
		Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.		
		<b>Skin contact</b>	:	Hexane Solvent Blank	Causes skin irritation.
				Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.				
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.				
Toluene Solution (0.02%)	Causes skin irritation.				
Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.				
Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.				
Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.				
<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.		
		Sodium Nitrite Solution (50 g/L)	Harmful if swallowed.		
		<b><u>Over-exposure signs/symptoms</u></b>			
		<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)	No specific data.				
Potassium Dichromate Solution (60.06 mg/L)	No specific data.				
Sulfuric Acid Solution (.01N)	No specific data.				
Toluene Solution (0.02%)	Adverse symptoms may include the following: pain or irritation watering redness				
Potassium Chloride Solution (12 g/L)	No specific data.				
Sodium Iodide Solution (10 g/L)	No specific data.				

## Section 4. First aid measures

### Inhalation

Sodium Nitrite Solution (50 g/L)	No specific data.
:  Hexane Solvent Blank	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Potassium Dichromate Solution (600.6 mg/L)	No specific data.
Potassium Dichromate Solution (60.06 mg/L)	No specific data.
Sulfuric Acid Solution (.01N)	No specific data.
Toluene Solution (0.02%)	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

### Skin contact

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.
:  Hexane Solvent Blank	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Potassium Dichromate Solution (600.6 mg/L)	No specific data.
Potassium Dichromate Solution (60.06 mg/L)	No specific data.
Sulfuric Acid Solution (.01N)	No specific data.
Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal 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.

## Section 4. First aid measures


<b>Ingestion</b>	: <input checked="" type="checkbox"/> Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations No specific data.
	Potassium Dichromate Solution (600.6 mg/L)	No specific data.
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal 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.

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

<b>Notes to physician</b>	: <input checked="" type="checkbox"/> 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>	: <input checked="" type="checkbox"/> Hexane Solvent Blank	No specific treatment.
	Potassium Dichromate Solution (600.6 mg/L)	No specific treatment.
	Potassium Dichromate Solution (60.06 mg/L)	No specific treatment.
	Sulfuric Acid Solution (.01N)	No specific treatment.
	Toluene Solution (0.02%)	No specific treatment.
	Potassium Chloride Solution (12 g/L)	No specific treatment.
	Sodium Iodide Solution (10 g/L)	No specific treatment.
	Sodium Nitrite Solution (50 g/L)	No specific treatment.


## Section 4. First aid measures

<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 before removing it, or wear gloves.
	Potassium Dichromate Solution (60.06 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 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.
	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. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:  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.




## Section 5. Fire-fighting measures

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


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

<b>Specific hazards arising from the chemical</b>	:	Hexane Solvent Blank	Highly flammable liquid and vapor. 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 vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
		Potassium Dichromate Solution (600.6 mg/L)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Potassium Dichromate Solution (60.06 mg/L)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Sulfuric Acid Solution (.01N)	In a fire or if heated, a pressure increase will occur and the container may burst.
		Toluene Solution (0.02%)	Highly flammable liquid and vapor. 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 vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
		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.
		Sodium Nitrite Solution (50 g/L)	In a fire or if heated, a pressure increase will occur and the container may burst.


## Section 5. Fire-fighting measures

<b>Hazardous thermal decomposition products</b>	:  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) Sodium Nitrite Solution (50 g/L)	No specific data. Decomposition products may include the following materials: nitrogen oxides metal oxide/oxides

### 5.3 Advice for firefighters


<b>Special protective actions for fire-fighters</b>	:  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.

## Section 5. Fire-fighting measures

	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.
<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.

## Section 6. Accidental release measures

### 6.1 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor 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 through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

Potassium Dichromate Solution  
(60.06 mg/L)

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

**For emergency responders :**  Hexane Solvent Blank

If specialized 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". If specialized 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". If specialized 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". If specialized clothing is required to deal with the

Potassium Dichromate Solution  
(600.6 mg/L)

Potassium Dichromate Solution  
(60.06 mg/L)

Sulfuric Acid Solution (.01N)

## 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 specialized 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 specialized 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 specialized 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 specialized 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".
<b>6.2 Environmental precautions</b>	
:  Hexane Solvent Blank	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Potassium Dichromate Solution (600.6 mg/L)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Potassium Dichromate Solution (60.06 mg/L)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Sulfuric Acid Solution (.01N)	Avoid dispersal of spilled 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Potassium Chloride Solution (12 g/L)	Avoid dispersal of spilled 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 spilled 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 Nitrite Solution (50 g/L)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

## Section 6. Accidental release measures

caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials 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. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Potassium Dichromate Solution  
(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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Toluene Solution (0.02%)

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.

Potassium Chloride Solution (12 g/L)

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.

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.

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

### 7.1 Precautions for safe handling

**Protective measures** :  Hexane Solvent Blank

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. 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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.

## Section 7. Handling and storage

Sulfuric Acid Solution (.01N)	use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Toluene Solution (0.02%)	Put on appropriate personal protective equipment (see Section 8). Keep away from alkalis.
	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 vapor or mist. Do not swallow. 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).
Sodium Nitrite Solution (50 g/L)	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.
<b>Advice on general occupational hygiene</b>	:  Hexane Solvent Blank
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. 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



## Section 7. Handling and storage

Sulfuric Acid Solution (.01N)

before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Toluene Solution (0.02%)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Potassium Chloride Solution (12 g/L)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Sodium Iodide Solution (10 g/L)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Sodium Nitrite Solution (50 g/L)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Hexane Solvent Blank

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

Potassium Dichromate Solution (600.6 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

## Section 7. Handling and storage

Potassium Dichromate Solution  
(60.06 mg/L)

that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled 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 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 unlabeled 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 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Toluene Solution (0.02%)

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 unlabeled 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 unlabeled 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

## Section 7. Handling and storage

Sodium Nitrite Solution (50 g/L)

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 unlabeled 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 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

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

#### Industrial sector specific solutions

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

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Hexane Solvent Blank n-Hexane	<p><b>ACGIH TLV (United States, 3/2017).</b>  <b>Absorbed through skin.</b>            TWA: 50 ppm 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 50 ppm 8 hours.            TWA: 180 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2016).</b></p>

## Section 8. Exposure controls/personal protection

<p><b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid</p>	<p>TWA: 50 ppm 10 hours. TWA: 180 mg/m<sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 500 ppm 8 hours. TWA: 1800 mg/m<sup>3</sup> 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 1 mg/m<sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 1 mg/m<sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2017).</b> TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Thoracic fraction <b>OSHA PEL (United States, 6/2016).</b> TWA: 1 mg/m<sup>3</sup> 8 hours.</p>
<p><b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid</p>	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 1 mg/m<sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 1 mg/m<sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2017).</b> TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Thoracic fraction <b>OSHA PEL (United States, 6/2016).</b> TWA: 1 mg/m<sup>3</sup> 8 hours.</p>
<p><b>Toluene Solution (0.02%)</b> n-Hexane</p>	<p><b>ACGIH TLV (United States, 3/2017).</b> <b>Absorbed through skin.</b> TWA: 50 ppm 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 50 ppm 8 hours. TWA: 180 mg/m<sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 50 ppm 10 hours. TWA: 180 mg/m<sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 500 ppm 8 hours. TWA: 1800 mg/m<sup>3</sup> 8 hours.</p>
<p><b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride</p>	<p>None.</p>
<p><b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite</p>	<p>None.</p>

### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 8. Exposure controls/personal protection

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	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.		
		<b>Color</b>	:	Hexane Solvent Blank	Colorless.
				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%)	Colorless.				
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>Odor</b>	:	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.
	<b>Odor threshold</b>	:	Hexane Solvent Blank
		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
		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
		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
		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.

## Section 9. Physical and chemical properties

<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.
		Sodium Nitrite Solution (50 g/L)	Not available.
		<b>Evaporation rate</b>	:
Potassium Dichromate Solution (600.6 mg/L)	Not available.		
Potassium Dichromate Solution (60.06 mg/L)	Not available.		
Sulfuric Acid Solution (.01N)	Not available.		
Toluene Solution (0.02%)	6.82 (butyl acetate = 1)		
Potassium Chloride Solution (12 g/L)	Not available.		
Sodium Iodide Solution (10 g/L)	Not available.		
Sodium Nitrite Solution (50 g/L)	Not available.		
<b>Flammability (solid, gas)</b>	:		
		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>Lower and upper explosive (flammable) limits</b>	:
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.		
Sodium Nitrite Solution (50 g/L)	Not available.		
<b>Vapor pressure</b>	:		
		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.
		Sodium Nitrite Solution (50 g/L)	Not available.
		<b>Vapor 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.
<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)



## Section 9. Physical and chemical properties

	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>10.1 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.
<b>10.2 Chemical stability</b>	Hexane Solvent Blank	The product is stable.
	Potassium Dichromate Solution (600.6 mg/L)	The product is stable.
	Potassium Dichromate Solution (60.06 mg/L)	The product is stable.
	Sulfuric Acid Solution (.01N)	The product is stable.
	Toluene Solution (0.02%)	The product is stable.
	Potassium Chloride Solution (12 g/L)	The product is stable.
	Sodium Iodide Solution (10 g/L)	The product is stable.
	Sodium Nitrite Solution (50 g/L)	The product is stable.

## Section 10. Stability and reactivity

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Hexane Solvent Blank	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
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%)	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
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.

### 10.5 Incompatible materials

Hexane Solvent Blank	Reactive or incompatible with the following materials: oxidizing materials
Potassium Dichromate Solution (600.6 mg/L)	May react or be incompatible with oxidizing materials.
Potassium Dichromate Solution (60.06 mg/L)	May react or be incompatible with oxidizing materials.
Sulfuric Acid Solution (.01N)	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. 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 oxidizing materials.
Sodium Iodide Solution (10 g/L)	May react or be incompatible with oxidizing materials.
Sodium Nitrite Solution (50 g/L)	May react or be incompatible with oxidizing

## Section 10. Stability and reactivity

materials.

### 10.6 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

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexane Solvent Blank n-Hexane	LC50 Inhalation Vapor	Rat - Male, Female	>31.86 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-
Toluene Solution (0.02%) n-Hexane	LC50 Inhalation Vapor	Rat - Male, Female	>31.86 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Potassium Chloride Solution (12 g/L) Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Sodium Nitrite Solution (50				

## Section 11. Toxicological information

g/L) Sodium nitrite	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	5.5 mg/l 85 mg/kg	4 hours -
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### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>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 5 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 5 milligrams	-
<b>Toluene Solution (0.02%)</b> n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	-	1	Known to be a human carcinogen.
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	-	1	Known to be a human carcinogen.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

## Section 11. Toxicological information

**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.	Respiratory tract irritation and Narcotic effects
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Category 2	Not determined	blood system

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>nHexane Solvent Blank</b> n-Hexane	Category 2	Not determined	nervous system and peripheral nervous system
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 2	Not determined	nervous system and peripheral nervous system

### 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 the likely routes of exposure

<b>nHexane Solvent Blank</b>	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.

## Section 11. Toxicological information

### Potential acute health effects

#### Eye contact

Hexane Solvent Blank	Causes eye irritation.
Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
Toluene Solution (0.02%)	Causes eye irritation.
Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.

#### Inhalation

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

#### Skin contact

Hexane Solvent Blank	Causes skin irritation.
Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
Toluene Solution (0.02%)	Causes skin irritation.
Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.

#### Ingestion

Hexane Solvent Blank	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Potassium Dichromate Solution (600.6 mg/L)	No known significant effects or critical hazards.
Potassium Dichromate Solution (60.06 mg/L)	No known significant effects or critical hazards.
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
Toluene Solution (0.02%)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Potassium Chloride Solution (12 g/L)	No known significant effects or critical hazards.
Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
Sodium Nitrite Solution (50 g/L)	Harmful if swallowed.

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

## Section 11. Toxicological information

	Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal 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>	: Hexane Solvent Blank	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
	Potassium Dichromate Solution (600.6 mg/L)	No specific data.
	Potassium Dichromate Solution (60.06 mg/L)	No specific data.
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal 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.

### Delayed and immediate effects and also 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

<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.



## Section 11. Toxicological information

<b>Carcinogenicity</b>	:	Hexane Solvent Blank	No known significant effects or critical hazards.
		Potassium Dichromate Solution (600.6 mg/L)	May cause cancer. Risk of cancer depends on duration and level of exposure.
		Potassium Dichromate Solution (60.06 mg/L)	May cause cancer. Risk of cancer depends on duration and level of exposure.
		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>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.
<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.
<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 (12 g/L)	No known significant effects or critical hazards.
		Sodium Iodide Solution (10 g/L)	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	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

## Section 11. Toxicological information

### Acute toxicity estimates

Route	ATE value
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Oral	44953.3 mg/kg
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Oral	44929.7 mg/kg
<b>Potassium Chloride Solution (12 g/L)</b> Oral	218873.6 mg/kg
<b>Sodium Nitrite Solution (50 g/L)</b> Oral	1782 mg/kg

### Other information

: <b>n</b> Hexane Solvent Blank	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
Potassium Dichromate Solution (600.6 mg/L)	Not available.
Potassium Dichromate Solution (60.06 mg/L)	Not available.
Sulfuric Acid Solution (.01N)	Not available.
Toluene Solution (0.02%)	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
Potassium Chloride Solution (12 g/L)	Not available.
Sodium Iodide Solution (10 g/L)	Not available.
Sodium Nitrite Solution (50 g/L)	Not available.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>n</b> Hexane Solvent Blank n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	Acute LC50 42500 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 36 ul/L Marine water	Fish - Agonus cataphractus	96 hours
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	Acute LC50 42500 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 36 ul/L Marine water	Fish - Agonus cataphractus	96 hours
<b>Toluene Solution (0.02%)</b> n-Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours

## Section 12. Ecological information

<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 141460 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.92 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 880 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	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	

### 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	-	-	Readily
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	-	-	Readily

### 12.3 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>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	-0.46	-	low
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	-3.7	-	low

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

#### Disposal methods


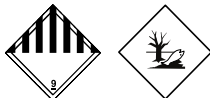

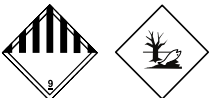

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	<input checked="" type="checkbox"/> Chemical kits	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 	9 	9 
Packing group	II	II	II	II	II
Environmental hazards	<input checked="" type="checkbox"/> No.	Yes.	<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.

#### Additional information

#### DOT Classification

**Reportable quantity** 16771.5 lbs / 7614.3 kg. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.

**Limited quantity** Yes.

**Packaging instruction** Exceptions: 161. Non-bulk: 161. Bulk: None.

**Quantity limitation** Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.

**Special provisions** 15

## Section 14. Transport information

- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
- Mexico Classification** : **Special provisions** 251, 340
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-A, \_S-P\_ **Special provisions** 251, 340
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations. **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960. **Special provisions** A44, A163
- 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

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

- U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules:** Sodium nitrite  
**TSCA 6 final risk management:** Potassium dichromate  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 307:** Potassium dichromate; Toluene  
**Clean Water Act (CWA) 311:** Sulphuric acid; Potassium dichromate; Sodium nitrite; Toluene
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Listed
- SARA 302/304**  
**Composition/information on ingredients**

## Section 15. Regulatory information

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	<5	Yes.	1000	66.3	1000	66.3
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	<5	Yes.	1000	66.3	1000	66.3
Sulfuric Acid Solution (.01N) Sulphuric acid	<0.1	Yes.	1000	66.3	1000	66.3

**SARA 304 RQ** : 33564 lbs / 37938.1 kg

### SARA 311/312

### Classification

: n-Hexane Solvent Blank

FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2B  
 TOXIC TO REPRODUCTION (Fertility) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2  
 ASPIRATION HAZARD - Category 1  
 HNOC - Static-accumulating flammable liquid  
 CARCINOGENICITY - Category 1A

Potassium Dichromate Solution (600.6 mg/L)  
 Potassium Dichromate Solution (60.06 mg/L)  
 Sulfuric Acid Solution (.01N)  
 Toluene Solution (0.02%)

CARCINOGENICITY - Category 1A

Not applicable.  
 FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2B  
 TOXIC TO REPRODUCTION (Fertility) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2  
 ASPIRATION HAZARD - Category 1

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

Not applicable.

Not applicable.  
 ACUTE TOXICITY (oral) - Category 4  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (blood system) - Category 2

### Composition/information on ingredients

Name	%	Classification
n-Hexane Solvent Blank n-Hexane	100	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous

## Section 15. Regulatory information

<p><b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid</p>	<5	<p>system, peripheral nervous system) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid</p>
<p><b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid</p>	<5	<p>SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 1A HNOC - Corrosive to digestive tract [severe]</p>
<p><b>Toluene Solution (0.02%)</b> n-Hexane</p>	≥90	<p>FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid</p>
<p><b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride</p>	≤3	<p>EYE IRRITATION - Category 2A</p>
<p><b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite</p>	≤5	<p>OXIDIZING SOLIDS - Category 3 ACUTE TOXICITY (oral) - Category 3 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (blood system) - Category 2</p>

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	<input checked="" type="checkbox"/> Hexane Solvent Blank n-Hexane	110-54-3	100
	<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	7664-93-9	<5
	<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	7664-93-9	<5
	<b>Toluene Solution (0.02%)</b> n-Hexane	110-54-3	≥90
	<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	7632-00-0	≤5

## Section 15. Regulatory information

Supplier notification	Ingredient name	Product ID	Concentration
	Hexane Solvent Blank n-Hexane	110-54-3	100
	Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	7664-93-9	<5
	Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	7664-93-9	<5
	Toluene Solution (0.02%) n-Hexane	110-54-3	≥90
	Sodium Nitrite Solution (50 g/L) Sodium nitrite	7632-00-0	≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: HEXANE; N-HEXANE; SULFURIC ACID
- New York** : The following components are listed: Hexane; Sulfuric acid
- New Jersey** : The following components are listed: n-HEXANE; HEXANE; SULFURIC ACID; DIHYDROGEN SULFATE
- Pennsylvania** : The following components are listed: HEXANE; SULFURIC ACID

### California Prop. 65

**WARNING:** This product can expose you to Chromium (hexavalent compounds), which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Strong inorganic acid mists containing sulfuric acid, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Potassium Dichromate Solution (600.6 mg/L) Chromium (hexavalent compounds) Strong inorganic acid mists containing sulfuric acid	Yes. -	- -
Potassium Dichromate Solution (60.06 mg/L) Chromium (hexavalent compounds) Strong inorganic acid mists containing sulfuric acid	Yes. -	- -
Sulfuric Acid Solution (.01N) Strong inorganic acid mists containing sulfuric acid	-	-
Toluene Solution (0.02%) Toluene	-	Yes.

### 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



## Section 15. Regulatory information

Not listed.

### [Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [Inventory list](#)

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

### [History](#)

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

### [Procedure used to derive the classification](#)

Classification	Justification
<input checked="" type="checkbox"/> <b>Hexane Solvent Blank</b> FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2 ASPIRATION HAZARD - Category 1	On basis of test data Expert judgment On basis of test data Expert judgment Expert judgment Expert judgment
<b>Potassium Dichromate Solution (600.6 mg/L)</b> CARCINOGENICITY - Category 1A	Calculation method
<b>Potassium Dichromate Solution (60.06 mg/L)</b> CARCINOGENICITY - Category 1A	Calculation method

## Section 16. Other information

<p><b>Toluene Solution (0.02%)</b>            FLAMMABLE LIQUIDS - Category 2            SKIN IRRITATION - Category 2            EYE IRRITATION - Category 2B            TOXIC TO REPRODUCTION (Fertility) - Category 2            SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3            SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3            SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system, peripheral nervous system) - Category 2            ASPIRATION HAZARD - Category 1</p> <p><b>Sodium Nitrite Solution (50 g/L)</b>            ACUTE TOXICITY (oral) - Category 4            SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (blood system) - Category 2</p>	<p>On basis of test data            Calculation method            Calculation method            Calculation method            Calculation method            Calculation method            Calculation method            Expert judgment            Calculation method            Calculation method</p>
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✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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