

# 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>	: nHexane 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** : 12/20/2022

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

<b>Identified uses</b>	: Reagents and Standards for Analytical Chemistry Laboratory Use
	<input checked="" type="checkbox"/> nHexane 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>	: nHexane 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.
	Toluene Solution (0.02%)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## Section 2. Hazards identification

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)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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 - 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) - Category 2
H304	ASPIRATION HAZARD - Category 1
H411	AQUATIC HAZARD (LONG-TERM) - Category 2

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

H290	CORROSIVE TO METALS - Category 1
H315	SKIN IRRITATION - Category 2
H318	SERIOUS EYE DAMAGE - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H400	AQUATIC HAZARD (ACUTE) - Category 1
H412	AQUATIC HAZARD (LONG-TERM) - Category 3

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

H290	CORROSIVE TO METALS - Category 1
H315	SKIN IRRITATION - Category 2
H318	SERIOUS EYE DAMAGE - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### **Toluene Solution (0.02%)**

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN IRRITATION - Category 2
H320	EYE IRRITATION - Category 2B
H361	TOXIC TO REPRODUCTION - 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) - Category 2
H304	ASPIRATION HAZARD - Category 1
H411	AQUATIC HAZARD (LONG-TERM) - Category 2

#### **Sodium Iodide Solution (10 g/L)**

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

## Section 2. Hazards identification

H302	ACUTE TOXICITY (oral) - Category 4
H371	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

### 2.2 GHS label elements

#### Hazard pictograms

: nHexane Solvent Blank

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

Toluene Solution (0.02%)



Sodium Nitrite Solution (50 g/L)



#### Signal word

nHexane Solvent Blank	Danger
Potassium Dichromate Solution (600.6 mg/L)	Danger
Potassium Dichromate Solution (60.06 mg/L)	Danger
Sulfuric Acid Solution (.01N)	No signal word.
Toluene Solution (0.02%)	Danger
Potassium Chloride Solution (12 g/L)	No signal word.
Sodium Iodide Solution (10 g/L)	No signal word.
Sodium Nitrite Solution (50 g/L)	Warning

#### Hazard statements

: nHexane Solvent Blank

H225 - Highly flammable liquid and vapor.  
H304 - May be fatal if swallowed and enters airways.  
H315 + H320 - Causes skin and eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system) (inhalation)  
H411 - Toxic to aquatic life with long lasting effects.  
H290 - May be corrosive to metals.

H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.

## Section 2. Hazards identification

Potassium Dichromate Solution  
(60.06 mg/L)

Sulfuric Acid Solution (.01N)  
Toluene Solution (0.02%)

Potassium Chloride Solution (12 g/L)

Sodium Iodide Solution (10 g/L)

Sodium Nitrite Solution (50 g/L)

H400 - Very toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.  
H290 - May be corrosive to metals.  
  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
No known significant effects or critical hazards.  
H225 - Highly flammable liquid and vapor.  
H304 - May be fatal if swallowed and enters airways.  
H315 + H320 - Causes skin and eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
No known significant effects or critical hazards.  
  
H412 - Harmful to aquatic life with long lasting effects.  
H302 - Harmful if swallowed.  
H371 - May cause damage to organs.  
H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

:  Hexane Solvent Blank

Potassium Dichromate Solution  
(600.6 mg/L)

Potassium Dichromate Solution  
(60.06 mg/L)

Sulfuric Acid Solution (.01N)  
Toluene Solution (0.02%)

P201 - Obtain special instructions before use.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.  
P273 - Avoid release to the environment.  
P260 - Do not breathe vapor.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves. Wear eye or face protection.  
P234 - Keep only in original packaging.  
P273 - Avoid release to the environment.  
P261 - Avoid breathing vapor.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves. Wear eye or face protection.  
P234 - Keep only in original packaging.  
P261 - Avoid breathing vapor.  
P264 - Wash thoroughly after handling.  
Not applicable.  
P201 - Obtain special instructions before use.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## Section 2. Hazards identification

P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
 P242 - Use non-sparking tools.  
 P243 - Take action to prevent static discharges.  
 P273 - Avoid release to the environment.  
 P260 - Do not breathe vapor.  
 P264 - Wash thoroughly after handling.  
 Not applicable.

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

P273 - Avoid release to the environment.  
 P273 - Avoid release to the environment.  
 P260 - Do not breathe vapor.  
 P270 - Do not eat, drink or smoke when using this product.  
 P264 - Wash thoroughly after handling.

### Response

:  Hexane Solvent Blank

P391 - Collect spillage.  
 P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
 P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.  
 P362 + P364 - Take off contaminated clothing and wash it before reuse.  
 P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 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 advice or attention.  
 P391 - Collect spillage.

Potassium Dichromate Solution (600.6 mg/L)

P390 - Absorb spillage to prevent material damage.  
 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
 P362 + P364 - Take off contaminated clothing and wash it before reuse.  
 P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Potassium Dichromate Solution (60.06 mg/L)

P390 - Absorb spillage to prevent material damage.  
 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
 P362 + P364 - Take off contaminated clothing and wash it before reuse.  
 P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

## Section 2. Hazards identification

		Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	Not applicable. P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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 advice or attention.
		Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	Not applicable. P391 - Collect spillage. P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
<b>Storage</b>	:	Hexane Solvent Blank	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
		Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. Not applicable. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
		Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	Not applicable. Not applicable.
<b>Disposal</b>	:	Hexane Solvent Blank	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Potassium Dichromate Solution (600.6 mg/L) Potassium Dichromate Solution (60.06 mg/L) Sulfuric Acid Solution (.01N) Toluene Solution (0.02%)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Potassium Chloride Solution (12 g/L) Sodium Iodide Solution (10 g/L) Sodium Nitrite Solution (50 g/L)	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in

## Section 2. Hazards identification

### Supplemental label elements

: nHexane Solvent Blank

accordance with all local, regional, national and international regulations.

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.

None known.

Potassium Dichromate Solution  
(600.6 mg/L)

Potassium Dichromate Solution  
(60.06 mg/L)

None known.

Sulfuric Acid Solution (.01N)

None known.

Toluene Solution (0.02%)

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.

Potassium Chloride Solution (12 g/L)

None known.

Sodium Iodide Solution (10 g/L)

None known.

Sodium Nitrite Solution (50 g/L)

None known.

### 2.3 Other hazards

### Hazards not otherwise classified

: nHexane Solvent Blank

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.

None known.

Potassium Dichromate Solution  
(600.6 mg/L)

Potassium Dichromate Solution  
(60.06 mg/L)

None known.

Sulfuric Acid Solution (.01N)

None known.

Toluene Solution (0.02%)

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.

Potassium Chloride Solution (12 g/L)

None known.

Sodium Iodide Solution (10 g/L)

None known.

Sodium Nitrite Solution (50 g/L)

None known.

## Section 3. Composition/information on ingredients

### Substance/mixture

: nHexane Solvent Blank

Substance

Potassium Dichromate Solution  
(600.6 mg/L)

Mixture

Potassium Dichromate Solution  
(60.06 mg/L)

Mixture

Sulfuric Acid Solution (.01N)

Mixture

Toluene Solution (0.02%)

Mixture

Potassium Chloride Solution (12 g/L)

Mixture

Sodium Iodide Solution (10 g/L)

Mixture

Sodium Nitrite Solution (50 g/L)

Mixture



## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
<b>Hexane Solvent Blank</b>		
n-Hexane	100	110-54-3
<b>Potassium Dichromate Solution (600.6 mg/L)</b>		
Sulphuric acid	≤5	7664-93-9
Potassium dichromate	<0.1	7778-50-9
<b>Potassium Dichromate Solution (60.06 mg/L)</b>		
Sulphuric acid	≤5	7664-93-9
Potassium dichromate	<0.01	7778-50-9
<b>Toluene Solution (0.02%)</b>		
n-Hexane	≥90	110-54-3
<b>Potassium Chloride Solution (12 g/L)</b>		
Potassium chloride	≤3	7447-40-7
<b>Sodium Iodide Solution (10 g/L)</b>		
Sodium iodide	<1	7681-82-5
<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 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

#### Eye contact

: Hexane Solvent Blank

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Potassium Dichromate Solution (600.6 mg/L)


Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Potassium Dichromate Solution

Get medical attention immediately. Call a poison



## Section 4. First aid measures

	(60.06 mg/L)	center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	Sulfuric Acid Solution (.01N)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Toluene Solution (0.02%)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	Potassium Chloride Solution (12 g/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Sodium Iodide Solution (10 g/L)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. 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.
<b>Inhalation</b>	:  Hexane Solvent Blank	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Potassium Dichromate Solution (600.6 mg/L)	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

Potassium Dichromate Solution  
(60.06 mg/L)

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

Sulfuric Acid Solution (.01N)

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

Toluene Solution (0.02%)

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

Potassium Chloride Solution (12 g/L)

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

Sodium Iodide Solution (10 g/L)


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

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.

## Section 4. First aid measures

### Skin contact

:  Hexane Solvent Blank

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Potassium Dichromate Solution  
(600.6 mg/L)

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

Potassium Dichromate Solution  
(60.06 mg/L)

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

Sulfuric Acid Solution (.01N)

Flush contaminated skin with plenty of 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.

### Ingestion

:  Hexane Solvent Blank

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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

Get medical attention immediately. Call a poison

## Section 4. First aid measures

(600.6 mg/L)

center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. 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.

Potassium Dichromate Solution  
(60.06 mg/L)

Sulfuric Acid Solution (.01N)

Toluene Solution (0.02%)

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

Potassium Chloride Solution (12 g/L)

Wash out mouth with water. 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

## Section 4. First aid measures

Sodium Nitrite Solution (50 g/L)

personnel.

Wash out mouth with water. Remove dentures if any. 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

##### Eye contact

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

Causes eye irritation.

Causes serious eye damage.

Causes serious eye damage.

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

##### Inhalation

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

Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause respiratory irritation.

May cause respiratory irritation.

No known significant effects or critical hazards.

Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

May cause respiratory irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

May cause damage to organs following a single exposure if inhaled.

##### Skin contact

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

Causes skin irritation.

Causes skin irritation.

Causes skin irritation.

No known significant effects or critical hazards.

Causes skin irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

May cause damage to organs following a single exposure in contact with skin.

## Section 4. First aid measures

### Ingestion

: nHexane 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. May cause damage to organs following a single exposure if swallowed.

### Over-exposure signs/symptoms

#### Eye contact

: nHexane Solvent Blank

Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

Potassium Dichromate Solution  
(600.6 mg/L)

Adverse symptoms may include the following:

pain  
watering  
redness

Potassium Dichromate Solution  
(60.06 mg/L)

Adverse symptoms may include the following:

pain  
watering  
redness

Sulfuric Acid Solution (.01N)

No specific data.

Toluene Solution (0.02%)

Adverse symptoms may include the following:

pain or irritation  
watering  
redness

Potassium Chloride Solution (12 g/L)

No specific data.

Sodium Iodide Solution (10 g/L)

No specific data.

Sodium Nitrite Solution (50 g/L)

No specific data.

#### Inhalation

: nHexane Solvent Blank

Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

Potassium Dichromate Solution  
(600.6 mg/L)

reduced fetal weight  
increase in fetal deaths  
skeletal malformations

Adverse symptoms may include the following:

respiratory tract irritation  
coughing

Potassium Dichromate Solution  
(60.06 mg/L)

Adverse symptoms may include the following:

respiratory tract irritation  
coughing

## Section 4. First aid measures

Skin contact	:	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)	No specific data.
		Sodium Nitrite Solution (50 g/L)	No specific data.
		nHexane 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)	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following: pain or irritation redness blistering may occur
		Sulfuric Acid Solution (.01N)	No specific data.
		Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	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.
		nHexane 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)	Adverse symptoms may include the following: stomach pains
		Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following: stomach pains
		Sulfuric Acid Solution (.01N)	No specific data.
		Toluene Solution (0.02%)	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations



## Section 4. First aid measures

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>	: nHexane 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.
<b>Specific treatments</b>	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.
	: nHexane 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.
<b>Protection of first-aiders</b>	Sodium Iodide Solution (10 g/L)	No specific treatment.
	Sodium Nitrite Solution (50 g/L)	No specific treatment.
	: nHexane 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

## Section 4. First aid measures

Sulfuric Acid Solution (.01N)

Toluene Solution (0.02%)

Potassium Chloride Solution (12 g/L)

Sodium Iodide Solution (10 g/L)

Sodium Nitrite Solution (50 g/L)

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.

No action shall be taken involving any personal risk or without suitable training.

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.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

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

#### Suitable extinguishing media

: nHexane Solvent Blank  
Potassium Dichromate Solution (600.6 mg/L)  
Potassium Dichromate Solution (60.06 mg/L)  
Sulfuric Acid Solution (.01N)

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Toluene Solution (0.02%)  
Potassium Chloride Solution (12 g/L)

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use an extinguishing agent suitable for the surrounding fire.

Sodium Iodide Solution (10 g/L)

Use an extinguishing agent suitable for the surrounding fire.

Sodium Nitrite Solution (50 g/L)

Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media

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

Do not use water jet.

None known.

None known.

None known.

Do not use water jet.

None known.

None known.

None known.

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

## Section 5. Fire-fighting measures

**Specific hazards arising from the chemical** :  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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Potassium Dichromate Solution  
(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)  
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. 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Potassium Chloride Solution (12 g/L)

In a fire or if heated, a pressure increase will occur and the container may burst.

Sodium Iodide Solution (10 g/L)

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to

## Section 5. Fire-fighting measures

### Hazardous thermal decomposition products

Sodium Nitrite Solution (50 g/L)	any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
: nHexane 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)	No specific data.
Toluene Solution (0.02%)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Potassium Chloride Solution (12 g/L)	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Sodium Iodide Solution (10 g/L)	No specific data.
Sodium Nitrite Solution (50 g/L)	Decomposition products may include the following materials: nitrogen oxides metal oxide/oxides

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

: nHexane 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

## Section 5. Fire-fighting measures

<b>Special protective equipment for fire-fighters</b>	Sodium Iodide Solution (10 g/L)	<p>action shall be taken involving any personal risk or without suitable training.</p> <p>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.</p>
	Sodium Nitrite Solution (50 g/L)	<p>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.</p>
	nHexane Solvent Blank	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Potassium Dichromate Solution (600.6 mg/L)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Potassium Dichromate Solution (60.06 mg/L)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Sulfuric Acid Solution (.01N)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Toluene Solution (0.02%)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Potassium Chloride Solution (12 g/L)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Sodium Iodide Solution (10 g/L)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>
	Sodium Nitrite Solution (50 g/L)	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>

## Section 6. Accidental release measures

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

<b>For non-emergency personnel</b>	nHexane Solvent Blank	<p>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.</p>
	Potassium Dichromate Solution (600.6 mg/L)	<p>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</p>

## Section 6. Accidental release measures

Potassium Dichromate Solution  
(60.06 mg/L)

touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe 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 :** nHexane 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

Potassium Dichromate Solution  
(600.6 mg/L)

Potassium Dichromate Solution



## Section 6. Accidental release measures

(60.06 mg/L)		spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Sulfuric Acid Solution (.01N)		If 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".
Toluene Solution (0.02%)		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>	<b>:</b>	
nHexane 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Potassium Dichromate Solution (600.6 mg/L)		Avoid dispersal of 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Potassium Dichromate Solution (60.06 mg/L)		Avoid dispersal of 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Potassium Chloride Solution (12 g/L)		Avoid dispersal of 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).



## Section 6. Accidental release measures

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

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 caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

Methods for cleaning up :  Hexane Solvent Blank

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Potassium Dichromate Solution (600.6 mg/L)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. 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. Absorb spillage to prevent material damage. 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. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Potassium Chloride Solution (12 g/L)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Sodium Iodide Solution (10 g/L)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

## Section 6. Accidental release measures

Sodium Nitrite Solution (50 g/L)

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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements.

Potassium Dichromate Solution  
(600.6 mg/L)

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Potassium Dichromate Solution

Put on appropriate personal protective equipment

## Section 7. Handling and storage

(60.06 mg/L)

(see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Sulfuric Acid Solution (.01N)

Put on appropriate personal protective equipment (see Section 8).

Toluene Solution (0.02%)

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

Potassium Chloride Solution (12 g/L)

Put on appropriate personal protective equipment (see Section 8).

Sodium Iodide Solution (10 g/L)

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Sodium Nitrite Solution (50 g/L)

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not

## Section 7. Handling and storage

Advice on general occupational hygiene

: nHexane Solvent Blank

Potassium Dichromate Solution (600.6 mg/L)

Potassium Dichromate Solution (60.06 mg/L)

Sulfuric Acid Solution (.01N)

Toluene Solution (0.02%)

Potassium Chloride Solution (12 g/L)

Sodium Iodide Solution (10 g/L)

Sodium Nitrite Solution (50 g/L)

: nHexane Solvent Blank

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

Sulfuric Acid Solution (.01N)

Toluene Solution (0.02%)

Potassium Chloride Solution (12 g/L)

Sodium Iodide Solution (10 g/L)

Sodium Nitrite Solution (50 g/L)

ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

[illegible]

## Section 7. Handling and storage

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

:  Hexane Solvent Blank

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.

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. 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 in a corrosion resistant container with a resistant inner liner. Store locked up. Keep away from metals. 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)

Potassium Dichromate Solution  
(60.06 mg/L)

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Keep away from metals. 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. 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

## Section 7. Handling and storage

Potassium Chloride Solution (12 g/L)

Sodium Iodide Solution (10 g/L)

Sodium Nitrite Solution (50 g/L)

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.

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.

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.

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

• nHexane 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.



## Section 7. Handling and storage

<b>Industrial sector specific solutions</b>	Sodium Nitrite Solution (50 g/L)	Industrial applications, Professional applications.
	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.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Hexane Solvent Blank n-Hexane	<b>ACGIH TLV (United States, 1/2022).</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, 10/2020).</b> TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 500 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Potassium Dichromate Solution (600.6 mg/L) Sulphuric acid	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2020).</b> TWA: 1 mg/m <sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 1/2022).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Thoracic fraction <b>OSHA PEL (United States, 5/2018).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2020).</b> <b>[chromic acid and chromates]</b> TWA: 0.0002 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 1/2022).</b> <b>[inorganic chromium VI compounds]</b> TWA: 0.0002 mg/m <sup>3</sup> , (measured as Cr) 8 hours. Form: Inhalable fraction STEL: 0.0005 mg/m <sup>3</sup> , (measured as Cr) 15 minutes. Form: Inhalable fraction <b>OSHA PEL (United States, 5/2018).</b> <b>[Chromium (VI) compounds]</b> TWA: 0.005 mg/m <sup>3</sup> , (as Cr) 8 hours.
Potassium dichromate	
Potassium Dichromate Solution (60.06 mg/L) Sulphuric acid	<b>OSHA PEL 1989 (United States, 3/1989).</b>



## Section 8. Exposure controls/personal protection

Potassium dichromate	<p>TWA: 1 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>  TWA: 1 mg/m<sup>3</sup> 10 hours.  <b>ACGIH TLV (United States, 1/2022).</b>  TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Thoracic fraction  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 1 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>  <b>[chromic acid and chromates]</b>  TWA: 0.0002 mg/m<sup>3</sup> 8 hours.  <b>ACGIH TLV (United States, 1/2022).</b>  <b>[inorganic chromium VI compounds]</b>  TWA: 0.0002 mg/m<sup>3</sup>, (measured as Cr) 8 hours. Form: Inhalable fraction  STEL: 0.0005 mg/m<sup>3</sup>, (measured as Cr) 15 minutes. Form: Inhalable fraction  <b>OSHA PEL (United States, 5/2018).</b>  <b>[Chromium (VI) compounds]</b>  TWA: 0.005 mg/m<sup>3</sup>, (as Cr) 8 hours.</p>
<b>Toluene Solution (0.02%)</b> n-Hexane	<p><b>ACGIH TLV (United States, 1/2022).</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, 10/2020).</b>  TWA: 50 ppm 10 hours.  TWA: 180 mg/m<sup>3</sup> 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 500 ppm 8 hours.  TWA: 1800 mg/m<sup>3</sup> 8 hours.</p>
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	None.
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	<p><b>ACGIH TLV (United States, 1/2022).</b>  <b>[Iodides]</b>  TWA: 0.01 ppm 8 hours. Form: Inhalable fraction and vapor</p>
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	None.

### Biological exposure indices

No exposure indices known.

### 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.

## Section 8. Exposure controls/personal protection

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

### Individual protection measures

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

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

### 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	nHexane 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>	nHexane 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.

## Section 9. Physical and chemical properties and safety characteristics

	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</b>	: nHexane 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>	: nHexane Solvent Blank	65 to 248 ppm
	Potassium Dichromate Solution (600.6 mg/L)	Not available.
	Potassium Dichromate Solution (60.06 mg/L)	Not available.
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
<b>pH</b>	: nHexane Solvent Blank	Not available.
	Potassium Dichromate Solution (600.6 mg/L)	2.1
	Potassium Dichromate Solution (60.06 mg/L)	2.1
	Sulfuric Acid Solution (.01N)	Not available.
	Toluene Solution (0.02%)	Not available.
	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
<b>Melting point/freezing point</b>	: nHexane Solvent Blank	-95.35°C (-139.6°F)
	Potassium Dichromate Solution (600.6 mg/L)	>0°C (>32°F)
	Potassium Dichromate Solution (60.06 mg/L)	>0°C (>32°F)
	Sulfuric Acid Solution (.01N)	>0°C (>32°F)
	Toluene Solution (0.02%)	-139°C (-218.2°F)
	Potassium Chloride Solution (12 g/L)	0°C (32°F)
	Sodium Iodide Solution (10 g/L)	0°C (32°F)
	Sodium Nitrite Solution (50 g/L)	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	: nHexane Solvent Blank	68.73°C (155.7°F)
	Potassium Dichromate Solution (600.6 mg/L)	>100°C (>212°F)
	Potassium Dichromate Solution (60.06 mg/L)	>100°C (>212°F)
	Sulfuric Acid Solution (.01N)	>100°C (>212°F)
	Toluene Solution (0.02%)	69°C (156.2°F)
	Potassium Chloride Solution (12 g/L)	100°C (212°F)
	Sodium Iodide Solution (10 g/L)	100°C (212°F)
	Sodium Nitrite Solution (50 g/L)	Not available.

## Section 9. Physical and chemical properties and safety characteristics

<b>Flash point</b>	:	nHexane 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>	:	nHexane Solvent Blank	6.82 (butyl acetate = 1)
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	6.82 (butyl acetate = 1)
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
<b>Flammability</b>	:	nHexane Solvent Blank	Not applicable.
		Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
		Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
		Sulfuric Acid Solution (.01N)	Not applicable.
		Toluene Solution (0.02%)	Not applicable.
		Potassium Chloride Solution (12 g/L)	Not applicable.
		Sodium Iodide Solution (10 g/L)	Not applicable.
		Sodium Nitrite Solution (50 g/L)	Not applicable.
<b>Lower and upper explosion limit/flammability limit</b>	:	nHexane Solvent Blank	Lower: 1.1% Upper: 7.5%
		Potassium Dichromate Solution (600.6 mg/L)	Not available.
		Potassium Dichromate Solution (60.06 mg/L)	Not available.
		Sulfuric Acid Solution (.01N)	Not available.
		Toluene Solution (0.02%)	Lower: 1.1% Upper: 7.5%
		Potassium Chloride Solution (12 g/L)	Not available.
		Sodium Iodide Solution (10 g/L)	Not available.
		Sodium Nitrite Solution (50 g/L)	Not available.
<b>Vapor pressure</b>	:	nHexane Solvent Blank	17 kPa (127.51 mm Hg) [room temperature] 53.4 kPa (400.69 mm Hg) [50°C (122°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%)	16.5 kPa (124 mm Hg)
		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 and safety characteristics

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Potassium Dichromate Solution (600.6 mg/L)</b>						
water	23.8	3.2		92.258	12.3	
Sulphuric acid	0	0				
<b>Potassium Dichromate Solution (60.06 mg/L)</b>						
water	23.8	3.2		92.258	12.3	
Sulphuric acid	0	0				
<b>Sulfuric Acid Solution (.01N)</b>						
water	23.8	3.2		92.258	12.3	
<b>Potassium Chloride Solution (12 g/L)</b>						
water	23.8	3.2		92.258	12.3	
<b>Sodium Iodide Solution (10 g/L)</b>						
water	23.8	3.2		92.258	12.3	
<b>Sodium Nitrite Solution (50 g/L)</b>						
water	23.8	3.2		92.258	12.3	

### Relative vapor density

nHexane 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.

## Section 9. Physical and chemical properties and safety characteristics

<b>Relative density</b>	<b>:</b> nHexane 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(ies)</b>	<b>:</b>	<b>Media</b>	<b>Result</b>
		<b>nHexane Solvent Blank</b>	
		methanol	Soluble
		diethyl ether	Soluble
		acetone	Soluble
		water	Not soluble
		<b>Potassium Dichromate Solution (600.6 mg/L)</b>	
		water	Soluble
		<b>Potassium Dichromate Solution (60.06 mg/L)</b>	
		water	Soluble
		<b>Sulfuric Acid Solution (.01N)</b>	
		water	Soluble
		<b>Toluene Solution (0.02%)</b>	
		water	Not soluble
		methanol	Soluble
		diethyl ether	Soluble
		acetone	Soluble
		<b>Potassium Chloride Solution (12 g/L)</b>	
		water	Soluble
		<b>Sodium Iodide Solution (10 g/L)</b>	
		water	Soluble
		<b>Sodium Nitrite Solution (50 g/L)</b>	
		water	Soluble

<b>Partition coefficient: n-octanol/water</b>	<b>:</b>	<b>nHexane Solvent Blank</b>	4 [OECD 107]
		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>Auto-ignition temperature</b>	<b>:</b>	nHexane 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 and safety characteristics

<b>Decomposition temperature</b>	Potassium Chloride Solution (12 g/L)	Not available.
	Sodium Iodide Solution (10 g/L)	Not available.
	Sodium Nitrite Solution (50 g/L)	Not available.
	nHexane 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.
<b>Viscosity</b>	Sodium Nitrite Solution (50 g/L)	Not available.
	nHexane Solvent Blank	Dynamic: 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.
<b>Particle characteristics</b>		
<b>Median particle size</b>	nHexane Solvent Blank	Not applicable.
	Potassium Dichromate Solution (600.6 mg/L)	Not applicable.
	Potassium Dichromate Solution (60.06 mg/L)	Not applicable.
	Sulfuric Acid Solution (.01N)	Not applicable.
	Toluene Solution (0.02%)	Not applicable.
	Potassium Chloride Solution (12 g/L)	Not applicable.
	Sodium Iodide Solution (10 g/L)	Not applicable.
	Sodium Nitrite Solution (50 g/L)	Not applicable.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	nHexane Solvent Blank	No specific test data related to reactivity available for this product or its ingredients.
	Potassium Dichromate Solution (600.6 mg/L)	No specific test data related to reactivity available for this product or its ingredients.
	Potassium Dichromate Solution (60.06 mg/L)	No specific test data related to reactivity available for this product or its ingredients.
	Sulfuric Acid Solution (.01N)	No specific test data related to reactivity available for this product or its ingredients.
	Toluene Solution (0.02%)	No specific test data related to reactivity available for this product or its ingredients.
	Potassium Chloride Solution (12 g/L)	No specific test data related to reactivity available for this product or its ingredients.
	Sodium Iodide Solution (10 g/L)	No specific test data related to reactivity available for this product or its ingredients.
	Sodium Nitrite Solution (50 g/L)	No specific test data related to reactivity available for this product or its ingredients.



## Section 10. Stability and reactivity

<b>10.2 Chemical stability</b>	:	nHexane 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.
<b>10.3 Possibility of hazardous reactions</b>	:	nHexane 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.
<b>10.4 Conditions to avoid</b>	:	nHexane 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.
<b>10.5 Incompatible materials</b>	:	nHexane Solvent Blank	Reactive or incompatible with the following materials: oxidizing materials
		Potassium Dichromate Solution (600.6 mg/L)	Reactive or incompatible with the following materials: metals
		Potassium Dichromate Solution (60.06 mg/L)	Reactive or incompatible with the following materials: metals

## Section 10. Stability and reactivity

Sulfuric Acid Solution (.01N)	May react or be incompatible with oxidizing materials.
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 materials.

### 10.6 Hazardous decomposition products

: nHexane 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
<b>nHexane Solvent Blank</b> n-Hexane	LC50 Inhalation Vapor LD50 Oral	Rat Rat	169.2 mg/l 15840 mg/kg	4 hours -
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid Potassium dichromate	LD50 Oral LD50 Dermal LD50 Dermal LD50 Oral	Rat Rabbit Rat Rat	2140 mg/kg 14 mg/kg >1000 mg/kg 25 mg/kg	- - - -
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid Potassium dichromate	LD50 Oral LD50 Dermal LD50 Dermal	Rat Rabbit Rat	2140 mg/kg 14 mg/kg >1000 mg/kg	- - -

## Section 11. Toxicological information

<b>Toluene Solution (0.02%)</b> n-Hexane  <b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride  <b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide  <b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	LD50 Oral	Rat	25 mg/kg	-
	LC50 Inhalation Vapor	Rat	169.2 mg/l	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
	LD50 Oral	Rat	2600 mg/kg	-
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	4340 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	5.5 mg/l	4 hours

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
 <b>Hexane Solvent Blank</b> n-Hexane	Eyes - Mild irritant	Rabbit	-	10 mg	-
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	Eyes - Severe irritant	Rabbit	-	250 ug	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 5 mg	-
Potassium dichromate	Eyes - Severe irritant	Rabbit	-	140 mg	-
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	Eyes - Severe irritant	Rabbit	-	250 ug	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 5 mg	-
Potassium dichromate	Eyes - Severe irritant	Rabbit	-	140 mg	-
<b>Toluene Solution (0.02%)</b> n-Hexane	Eyes - Mild irritant	Rabbit	-	10 mg	-
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-

## Section 11. Toxicological information

### 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.
Potassium dichromate	+	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.
Potassium dichromate	+	1	Known to be a human carcinogen.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity


**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>n-Hexane Solvent Blank</b> n-Hexane	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Potassium Dichromate Solution (600.6 mg/L)	Category 3	-	Respiratory tract irritation
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Potassium Dichromate Solution (60.06 mg/L)	Category 3	-	Respiratory tract irritation
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Category 3	-	Respiratory tract irritation
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Category 2	-	blood system

### Specific target organ toxicity (repeated exposure)


## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
 <b>nHexane Solvent Blank</b> n-Hexane	Category 2	inhalation	nervous system
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Potassium dichromate	Category 1	-	cardiovascular system, haematopoietic system
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Potassium dichromate	Category 1	-	cardiovascular system, haematopoietic system
<b>Toluene Solution (0.02%)</b> n-Hexane	Category 2	inhalation	nervous system
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Category 1	oral	thyroid

### Aspiration hazard


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

### Information on the likely routes of exposure

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

### Potential acute health effects

#### Eye contact

 <b>nHexane Solvent Blank</b>	Causes eye irritation.
Potassium Dichromate Solution (600.6 mg/L)	Causes serious eye damage.
Potassium Dichromate Solution (60.06 mg/L)	Causes serious eye damage.
Sulfuric Acid Solution (.01N)	No known significant effects or critical hazards.
Toluene Solution (0.02%)	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.

## Section 11. Toxicological information

<b>Inhalation</b>	Sodium Nitrite Solution (50 g/L)	No known significant effects or critical hazards.
	: nHexane 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)	May cause respiratory irritation.
	Potassium Dichromate Solution (60.06 mg/L)	May cause respiratory irritation.
	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.
<b>Skin contact</b>	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)	May cause damage to organs following a single exposure if inhaled.
	: nHexane Solvent Blank	Causes skin irritation.
	Potassium Dichromate Solution (600.6 mg/L)	Causes skin irritation.
	Potassium Dichromate Solution (60.06 mg/L)	Causes skin irritation.
<b>Ingestion</b>	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)	May cause damage to organs following a single exposure in contact with skin.
	: nHexane 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. May cause damage to organs following a single exposure if swallowed.

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

<b>Eye contact</b>	: nHexane Solvent Blank	Adverse symptoms may include the following: pain or irritation watering redness
	Potassium Dichromate Solution (600.6 mg/L)	Adverse symptoms may include the following:  pain watering redness
	Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:



## Section 11. Toxicological information

### Inhalation

Sulfuric Acid Solution (.01N)	pain
Toluene Solution (0.02%)	watering
	redness
	No specific data.
	Adverse symptoms may include the following:
	pain or irritation
	watering
	redness
Potassium Chloride Solution (12 g/L)	No specific data.
Sodium Iodide Solution (10 g/L)	No specific data.
Sodium Nitrite Solution (50 g/L)	No specific data.
nHexane 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)	Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
Potassium Dichromate Solution (60.06 mg/L)	Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
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)	No specific data.
Sodium Nitrite Solution (50 g/L)	No specific data.

### Skin contact

nHexane 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)	Adverse symptoms may include the following:
	pain or irritation
	redness
	blistering may occur
Potassium Dichromate Solution	Adverse symptoms may include the following:

## Section 11. Toxicological information

	(60.06 mg/L)	
		pain or irritation redness blistering may occur
	Sulfuric Acid Solution (.01N)	No specific data.
	Toluene Solution (0.02%)	Adverse symptoms may include the following: irritation redness reduced 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>	: nHexane 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)	Adverse symptoms may include the following:
	Potassium Dichromate Solution (60.06 mg/L)	stomach pains Adverse symptoms may include the following:
	Sulfuric Acid Solution (.01N)	stomach pains 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>	: nHexane Solvent Blank	May cause damage to organs through prolonged or repeated exposure if inhaled.
	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.

## Section 11. Toxicological information

### Carcinogenicity

L)		
Sodium Iodide Solution (10 g/L)		No known significant effects or critical hazards.
Sodium Nitrite Solution (50 g/L)		No known significant effects or critical hazards.
nHexane 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.

### Mutagenicity

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.
nHexane 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.

### Reproductive toxicity

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.
nHexane Solvent Blank		Suspected of damaging fertility or the unborn child.
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 or the unborn child.
Potassium Chloride Solution (12 g/L)		No known significant effects or critical hazards.
Sodium Iodide Solution (10 g/L)		No known significant effects or critical hazards.
Sodium Nitrite Solution (50 g/L)		No known significant effects or critical hazards.

## Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
nHexane Solvent Blank n-Hexane	15840	N/A	N/A	169.2	N/A
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Potassium Dichromate Solution (600.6 mg/L)	44953.3	N/A	N/A	N/A	N/A
Sulphuric acid	2140	N/A	N/A	N/A	N/A
Potassium dichromate	25	14	N/A	N/A	0.0832
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Potassium Dichromate Solution (60.06 mg/L)	44929.7	N/A	N/A	N/A	N/A
Sulphuric acid	2140	N/A	N/A	N/A	N/A
Potassium dichromate	25	14	N/A	N/A	0.0832
<b>Toluene Solution (0.02%)</b>					

## Section 11. Toxicological information

n-Hexane	15840	N/A	N/A	169.2	N/A
<b>Potassium Chloride Solution (12 g/L)</b>					
Potassium Chloride Solution (12 g/L)	218873.6	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
<b>Sodium Iodide Solution (10 g/L)</b>					
Sodium iodide	4340	2500	N/A	N/A	N/A
<b>Sodium Nitrite Solution (50 g/L)</b>					
Sodium Nitrite Solution (50 g/L)	1782.0	N/A	N/A	N/A	N/A
Sodium nitrite	85	N/A	N/A	N/A	5.5

### Other information

: nHexane Solvent Blank

Adverse symptoms may include the following:  
Repeated exposure may cause skin dryness or cracking.

Not available.

Potassium Dichromate Solution  
(600.6 mg/L)

Not available.

Potassium Dichromate Solution  
(60.06 mg/L)

Not available.

Sulfuric Acid Solution (.01N)

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>nHexane Solvent Blank</b> 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 EC50 >100 mg/l Fresh water Acute EC50 >100 mg/l Fresh water Acute LC50 42500 µg/l Marine water	Algae Daphnia Crustaceans - Pandalus montagui - Adult	72 hours 48 hours 48 hours
Potassium dichromate	Acute LC50 36 µl/L Marine water Acute EC50 0.51 µg/l Fresh water	Fish - Agonus cataphractus Algae - Stephanodiscus hantzschii - Exponential growth phase	96 hours 96 hours
	Acute EC50 29610 µg/l Fresh water	Aquatic plants - Lemna minor - Exponential growth phase	4 days
	Acute EC50 19.9 µg/l Fresh water Acute EC50 73 µg/l Fresh water Acute IC50 0.12 mg/l Fresh water Acute LC50 0.002 mg/l Fresh water	Daphnia - Daphnia magna Fish - Notemigonus crysoleucas Algae - Chlorella vulgaris Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours 96 hours 72 hours 48 hours
	Chronic NOEC 40 µg/l Marine water Chronic NOEC 0.01 µg/ml Fresh water	Algae - Gracilaria tenuistipitata Aquatic plants - Eichhornia crassipes - Young	4 days 96 hours
	Chronic NOEC 0.018 mg/l Fresh water	Daphnia - Daphnia magna	21 days

## Section 12. Ecological information

<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	Chronic NOEC 0.71 mg/l Fresh water	Fish - Channa punctata - Adult	30 days
	Acute EC50 >100 mg/l Fresh water Acute EC50 >100 mg/l Fresh water Acute LC50 42500 µg/l Marine water	Algae Daphnia Crustaceans - Pandalus montagui - Adult	72 hours 48 hours 48 hours
Potassium dichromate	Acute LC50 36 µl/L Marine water Acute EC50 0.51 µg/l Fresh water	Fish - Agonus cataphractus Algae - Stephanodiscus hantzschii - Exponential growth phase	96 hours 96 hours
	Acute EC50 29610 µg/l Fresh water	Aquatic plants - Lemna minor - Exponential growth phase	4 days
	Acute EC50 19.9 µg/l Fresh water Acute EC50 73 µg/l Fresh water Acute IC50 0.12 mg/l Fresh water Acute LC50 0.002 mg/l Fresh water	Daphnia - Daphnia magna Fish - Notemigonus crysoleucas Algae - Chlorella vulgaris Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours 96 hours 72 hours 48 hours
	Chronic NOEC 40 µg/l Marine water Chronic NOEC 0.01 µg/ml Fresh water	Algae - Gracilaria tenuistipitata Aquatic plants - Eichhornia crassipes - Young	4 days 96 hours
<b>Toluene Solution (0.02%)</b> n-Hexane	Chronic NOEC 0.018 mg/l Fresh water Chronic NOEC 0.71 mg/l Fresh water	Daphnia - Daphnia magna Fish - Channa punctata - Adult	21 days 30 days
	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 µg/l Fresh water Acute EC50 83000 µg/l Fresh water Acute LC50 9.68 mg/l Fresh water	Algae - Navicula seminulum Daphnia - Daphnia magna Crustaceans - Pseudosida ramosa - Neonate	96 hours 48 hours 48 hours
<b>Sodium Iodide Solution (10 g/L)</b> Sodium iodide	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours
	Acute LC50 0.17 mg/l Fresh water Acute LC50 860 mg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Fry	48 hours 96 hours
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	Acute EC50 159000 µg/l Marine water Acute EC50 1600000 µg/l Marine water Acute LC50 1100 µg/l Fresh water	Algae - Tetraselmis chuii Algae - Tetraselmis chuii Crustaceans - Cherax quadricarinatus	72 hours 96 hours 48 hours
	Acute LC50 18.75 mg/l Fresh water Acute LC50 0.16 µg/l Fresh water	Daphnia - Daphnia similoides Fish - Ictalurus punctatus - Fingerling	48 hours 96 hours
	Chronic NOEC 0.1 mg/l	Daphnia - Daphnia obtusa - Neonate	21 days
	Chronic NOEC 0.01 mg/l Fresh water	Fish - Oncorhynchus mykiss	28 days

### [12.2 Persistence and degradability](#)

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>nHexane Solvent Blank</b> n-Hexane	-	-	Readily
<b>Toluene Solution (0.02%)</b> n-Hexane	-	-	Readily
<b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride	-	-	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 Iodide Solution (10 g/L)</b> Sodium iodide	0.05	1020	high
<b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite	-3.7	-	low

### 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.








## Section 13. Disposal considerations

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	Chemical kit	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	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

 **Remarks:** Excepted Quantity

### 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

### 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.

**Passenger Carrying Road or Rail Index** 10

**Special provisions** 65, 141

### 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



## Section 14. Transport information

- 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 IMO instruments** : 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; Sodium nitrite; Potassium dichromate; 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)** : ☒ Not listed

### SARA 302/304

#### Composition/information on ingredients


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

**SARA 304 RQ** : 83564 lbs / 37938.1 kg

### SARA 311/312

## Section 15. Regulatory information

### Classification

:  Hexane Solvent Blank

FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2B  
 TOXIC TO REPRODUCTION - 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) - Category 2  
 ASPIRATION HAZARD - Category 1  
 HNOC - Static-accumulating flammable liquid  
 CORROSIVE TO METALS - Category 1

Potassium Dichromate Solution (600.6 mg/L)

SKIN IRRITATION - Category 2  
 SERIOUS EYE DAMAGE - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Respiratory tract irritation) - Category 3  
 CORROSIVE TO METALS - Category 1

Potassium Dichromate Solution (60.06 mg/L)


SKIN IRRITATION - Category 2  
 SERIOUS EYE DAMAGE - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Respiratory tract irritation) - Category 3

Sulfuric Acid Solution (.01N)  
Toluene Solution (0.02%)

Not applicable.  
 FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2B  
 TOXIC TO REPRODUCTION - 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) - Category 2  
 ASPIRATION HAZARD - Category 1  
 HNOC - Static-accumulating flammable liquid  
 Not applicable.  
 Not applicable.  
 ACUTE TOXICITY (oral) - Category 4  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -  
 Category 2

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

### Composition/information on ingredients

Name	%	Classification
 Hexane Solvent Blank n-Hexane	100	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - 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) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Sulphuric acid	≤5	SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract [severe]
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Sulphuric acid	≤5	SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract [severe]
<b>Toluene Solution (0.02%)</b> n-Hexane	≥90	FLAMMABLE LIQUIDS - Category 2

## Section 15. Regulatory information

<p><b>Potassium Chloride Solution (12 g/L)</b> Potassium chloride</p> <p><b>Sodium Nitrite Solution (50 g/L)</b> Sodium nitrite</p>	<p>≤3</p> <p>≤5</p>	<p>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - 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) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid</p> <p>EYE IRRITATION - Category 2B</p> <p>OXIDIZING SOLIDS - Category 3 ACUTE TOXICITY (oral) - Category 3 EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2</p>
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### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	<b>nHexane Solvent Blank</b> 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
<b>Supplier notification</b>	<b>nHexane Solvent Blank</b> 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

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

<b>Massachusetts</b>	: The following components are listed: HEXANE; SULFURIC ACID
<b>New York</b>	: The following components are listed: Hexane; Sulfuric acid
<b>New Jersey</b>	: The following components are listed: n-HEXANE; SULFURIC ACID
<b>Pennsylvania</b>	: The following components are listed: HEXANE; SULFURIC ACID

## Section 15. Regulatory information

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including 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 n-hexane and Toluene, which are 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
<b>Hexane Solvent Blank</b> n-hexane	-	Yes.
<b>Potassium Dichromate Solution (600.6 mg/L)</b> Strong inorganic acid mists containing sulfuric acid Chromium (hexavalent compounds)	- Yes.	- Yes.
<b>Potassium Dichromate Solution (60.06 mg/L)</b> Strong inorganic acid mists containing sulfuric acid Chromium (hexavalent compounds)	- Yes.	- Yes.
<b>Sulfuric Acid Solution (.01N)</b> Strong inorganic acid mists containing sulfuric acid	-	-
<b>Toluene Solution (0.02%)</b> n-hexane Toluene	- -	Yes. Yes.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory:</b> All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> All components are listed or exempted. <b>Japan inventory (ISHL):</b> All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.

## Section 15. Regulatory information

<b>Thailand</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: All components are listed or exempted.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
<b>Hexane Solvent Blank</b> FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - 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) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Expert judgment On basis of test data Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment On basis of test data
<b>Potassium Dichromate Solution (600.6 mg/L)</b> CORROSIVE TO METALS - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Expert judgment Calculation method Calculation method Expert judgment Calculation method Calculation method
<b>Potassium Dichromate Solution (60.06 mg/L)</b> CORROSIVE TO METALS - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Expert judgment Calculation method Calculation method Expert judgment
<b>Toluene Solution (0.02%)</b> FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - 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) - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Expert judgment Calculation method
<b>Sodium Iodide Solution (10 g/L)</b> AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
<b>Sodium Nitrite Solution (50 g/L)</b> ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1	Calculation method Calculation method Calculation method

## Section 16. Other information

AQUATIC HAZARD (LONG-TERM) - Category 1

Calculation method

### History

**Date of issue** : 12/20/2022

**Date of previous issue** : 10/17/2019

**Version** : 7

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973  
 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 UN = United Nations

📌 Indicates information that has changed from previously issued version.

### Notice to reader

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