# SAFETY DATA SHEET

G78RC28

# **Section 1. Identification**

Product name : PERMACLAD® 4000 Enamel

Red Oxide YS

Product code : G78RC28
Other means of : Not available.

identification
Product type

: Liquid.

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

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY

101 W. Prospect Avenue Cleveland, OH 44115

National contact : Sherwin-Williams Canada Inc.

180 Brunel Road

Mississauga, Ontario L4Z 1T5 Canada

Emergency telephone number of the company

: US / Canada: (800) 424-9300

Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number

: US / Canada: 866-722-9710

Mexico: Not Available

Transportation Emergency

**Telephone Number** 

: US / Canada: (800) 424-9300

Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

# Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 8.6%

(oral), 15.9% (dermal), 8.6% (inhalation)

**GHS label elements** 

Hazard pictograms :







Signal word : Danger

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# Section 2. Hazards identification

#### **Hazard statements**

: Highly flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. (lungs)

#### **Precautionary statements**

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

## Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### **Storage**

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### **Disposal**

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

# Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

# Hazards not otherwise classified

: None known.

# classified

# Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

Other means of identification

: Not available.

## **CAS** number/other identifiers

Ingredient name	% by weight	CAS number
Iron Oxide	21.2	1309-37-1
Acetone	8.37	67-64-1
Light Aromatic Hydrocarbons	7.22	64742-95-6
trimethylbenzene	3.77	25551-13-7
2-Butoxyethanol	3.46	111-76-2
t-Butyl Acetate	2.9	540-88-5
1,3,5-Trimethylbenzene	1.57	108-67-8
1,2,4-Trimethylbenzene	1.57	95-63-6

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Section 3. Composition/information on ingredients		
Talc	1.39	14807-96-6
Xylene, mixed isomers	0.62	1330-20-7
Cumene	0.47	98-82-8
1,2,3-Trimethylbenzene	0.47	526-73-8
Ethylbenzene	0.22	100-41-4
Unsaturated Fatty Acids	0.13	85711-46-2

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

### **Description of necessary first aid measures**

Eye contact

rescription of necessary mist aid measures

: 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.

**Inhalation** : 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Ingestion : 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.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

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# Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Protection of first-aiders : 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.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing

media

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

Unsuitable extinguishing

media

: Do not use water jet.

# Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

# Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

# Special protective actions for fire-fighters

: 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.

# Special protective equipment for fire-fighters

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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark :

: Flammable liquid.

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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: 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.

### For emergency responders:

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".

### **Environmental precautions**

: 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).

### Methods and materials for containment and cleaning up

### **Small spill**

: 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.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

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

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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
Iron Oxide	1309-37-1	NIOSH REL (United States, 10/2020).  TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust and fumes  ACGIH TLV (United States, 1/2023).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust
Acetone	67-64-1	ACGIH TLV (United States, 1/2023).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 250 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.  TWA: 2400 mg/m³ 8 hours.
Light Aromatic Hydrocarbons trimethylbenzene	64742-95-6 25551-13-7	None. ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers]
2-Butoxyethanol	111-76-2	TWA: 10 ppm 8 hours.  ACGIH TLV (United States, 1/2023).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.  TWA: 5 ppm 10 hours.  TWA: 24 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  Absorbed through skin.  TWA: 50 ppm 8 hours.  TWA: 240 mg/m³ 8 hours.
t-Butyl Acetate	540-88-5	NIOSH REL (United States, 10/2020).  TWA: 200 ppm 10 hours.  TWA: 950 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 200 ppm 8 hours.  TWA: 950 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2023). [Butyl acetates all isomers]  STEL: 150 ppm 15 minutes.  TWA: 50 ppm 8 hours.

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1,3,5-Trimethylbenzene	108-67-8	ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours.
1,2,4-Trimethylbenzene	95-63-6	TWA: 125 mg/m³ 10 hours.  NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.  ACGIH TLV (United States, 1/2023).
Talc	14807-96-6	TWA: 10 ppm 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 2 mg/m³ 10 hours. Form: Respirable fraction  ACGIH TLV (United States, 1/2023).  TWA: 2 mg/m³ 8 hours. Form: Respirable
Xylene, mixed isomers	1330-20-7	fraction OSHA PEL (United States, 5/2018). [Xylenes (o-, m-, p-isomers)] TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.
Cumene	98-82-8	ACGIH TLV (United States, 1/2023).  TWA: 5 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.  TWA: 50 ppm 10 hours.  TWA: 245 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  Absorbed through skin.  TWA: 50 ppm 8 hours.  TWA: 245 mg/m³ 8 hours.
1,2,3-Trimethylbenzene	526-73-8	ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.
Ethylbenzene	100-41-4	ACGIH TLV (United States, 1/2023). Ototoxicant.  TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020).  TWA: 100 ppm 10 hours.  TWA: 435 mg/m³ 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Unsaturated Fatty Acids	85711-46-2	None.

Occupational exposure limits (Canada)

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Ingredient name	CAS#	Exposure limits
acetone	67-64-1	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 1200 mg/m³ 8 hours.  15 min OEL: 1800 mg/m³ 15 minutes.  8 hrs OEL: 500 ppm 8 hours.  15 min OEL: 750 ppm 15 minutes.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 250 ppm 8 hours.  STEV: 500 ppm 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 750 ppm 15 minutes.  TWA: 500 ppm 8 hours.
Trimethylbenzene	25551-13-7	CA Alberta Provincial (Canada, 6/2018). [Trimethyl benzene (mixed isomers)] 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Trimethyl benzene (mixture of isomers)] Skin sensitizer. Inhalation sensitizer. TWAEV: 25 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Trimethyl benzene mixed isomer] STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
2-Butoxyethanol	111-76-2	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 97 mg/m³ 8 hours.  8 hrs OEL: 20 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 20 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 30 ppm 15 minutes.  TWA: 20 ppm 8 hours.
Tertiairy butyl acetate	540-88-5	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 200 ppm 8 hours. 8 hrs OEL: 950 mg/m³ 8 hours.

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		CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 250 ppm 15 minutes.  TWA: 200 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  [butyl acetates, all isomers]  STEL: 150 ppm 15 minutes.  TWA: 50 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2022). [butyl acetate, all isomers]  STEL: 150 ppm 15 minutes.  TWA: 50 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).
Mesitylene	108-67-8	[butyl acetates (all isomers)] STEV: 150 ppm 15 minutes. TWAEV: 50 ppm 8 hours.  CA Alberta Provincial (Canada, 6/2018). [Trimethyl benzene (mixed isomers)]
		8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Trimethyl benzene (mixture of isomers)] Skin sensitizer. Inhalation sensitizer.  TWAEV: 25 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Trimethyl benzene mixed isomer]  STEL: 30 ppm 15 minutes.  TWA: 25 ppm 8 hours.
1,2,4-Trimethylbenzene	95-63-6	CA Alberta Provincial (Canada, 6/2018).  [Trimethyl benzene (mixed isomers)]  8 hrs OEL: 123 mg/m³ 8 hours.  8 hrs OEL: 25 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  [Trimethyl benzene (mixture of isomers)]  Skin sensitizer. Inhalation sensitizer.  TWAEV: 25 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013). [Trimethyl benzene mixed isomer]  STEL: 30 ppm 15 minutes.  TWA: 25 ppm 8 hours.
talc (none asbestiform)	14807-96-6	CA British Columbia Provincial (Canada, 6/2022). Notes: the value is for particulate matter containing no asbestos and less
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F	than 1% crystalline silica.  TWA: 2 mg/m³ 8 hours. Form: Respirable  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 2 mg/m³ 8 hours. Form:  Respirable dust.  CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 2 mg/m³ 8 hours. Form:  Respirable particulate
	CA Ontario Provincial (Canada, 6/2019).  TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter.  TWA: 2 f/cc 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  TWA: 2 mg/m³ 8 hours. Form: respirable fraction
Xylene 1330-20-7	CA Alberta Provincial (Canada, 6/2018).  [Dimethylbenzene (o,m & p isomers)]  8 hrs OEL: 100 ppm 8 hours.  15 min OEL: 651 mg/m³ 15 minutes.  15 min OEL: 150 ppm 15 minutes.  8 hrs OEL: 434 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)]  TWA: 100 ppm 8 hours.  STEL: 150 ppm 15 minutes.  CA Quebec Provincial (Canada, 6/2022).  [Xylene (o-,m-,p-isomers)]  TWAEV: 100 ppm 8 hours.  TWAEV: 434 mg/m³ 8 hours.  STEV: 150 ppm 15 minutes.  STEV: 651 mg/m³ 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  [Xylene (o-, m-, p-isomers)]  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)]  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.
	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 50 ppm 8 hours.  8 hrs OEL: 246 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 25 ppm 8 hours.  STEL: 75 ppm 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  TWA: 50 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 50 ppm 8 hours.  TWAEV: 50 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 74 ppm 15 minutes.
	TWA: 50 ppm 8 hours.

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8 hrs OEL: 100 ppm 8 hours.
8 hrs OEL: 434 mg/m <sup>3</sup> 8 hours.
15 min OEL: 543 mg/m³ 15 minutes.
15 min OEL: 125 ppm 15 minutes.
CA British Columbia Provincial (Canada,
6/2022).
TWA: 20 ppm 8 hours.
CA Ontario Provincial (Canada, 6/2019).
TWA: 20 ppm 8 hours.
CA Quebec Provincial (Canada, 6/2022).
TWAEV: 20 ppm 8 hours.
CA Saskatchewan Provincial (Canada,
7/2013).
STEL: 125 ppm 15 minutes.
TWA: 100 ppm 8 hours.
' ' '

## Occupational exposure limits (Mexico)

Ingredient name	CAS#	Exposure limits
Acetone	67-64-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.
trimethylbenzene	25551-13-7	NOM-010-STPS-2014 (Mexico, 4/2016). [Trimethyl benzene, mixed isomers] TWA: 25 ppm 8 hours.
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
t-Butyl Acetate	540-88-5	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours.
1,3,5-Trimethylbenzene	108-67-8	NOM-010-STPS-2014 (Mexico, 4/2016). [Trimethyl benzene, mixed isomers] TWA: 25 ppm 8 hours.
1,2,4-Trimethylbenzene	95-63-6	NOM-010-STPS-2014 (Mexico, 4/2016). [Trimethyl benzene, mixed isomers] TWA: 25 ppm 8 hours.
Cumene	98-82-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.

## **Biological exposure indices (United States)**

Ingredient name	Exposure indices
Acetone	ACGIH BEI (United States, 1/2023)  BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.
2-Butoxyethanol	ACGIH BEI (United States, 1/2023) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
Xylene, mixed isomers	ACGIH BEI (United States, 1/2023) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	ACGIH BEI (United States, 1/2023) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

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## **Biological exposure indices (Canada)**

No exposure indices known.

### **Biological exposure indices (Mexico)**

Ingredient name	Exposure indices
Acetone	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)  BEI: 50 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the work shift.
2-Butoxyethanol	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)  BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: exposure sample at the end of the work shift.

# 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **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. Contaminated work clothing should not be allowed out of the workplace. 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

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: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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**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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 

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

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

### **Appearance**

**Physical state** : Liquid. Color : Red.

Odor : Not available. : Not available. **Odor threshold** : Not applicable. Melting point/freezing point : Not available. **Boiling point, initial boiling** : 55°C (131°F)

point, and boiling range

Flash point : Closed cup: 6°C (42.8°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 89 (butyl acetate = 1) **Flammability** : Flammable liquid. Lower and upper explosion : Lower: 0.7% limit/flammability limit Upper: 12.8%

Vapor pressure : 24 kPa (180 mm Hg)

**Relative vapor density** 2 [Air = 1] **Relative density** 1.25

Solubility(ies)

Media	Result
cold water	Not soluble

Partition coefficient: noctanol/water

: Not applicable.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** Kinematic (40°C (104°F)): <20.5 mm<sup>2</sup>/s (<20.5 cSt)

Molecular weight Not applicable. **Heat of combustion** : 12.069 kJ/g

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# Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: 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.

**Incompatible materials** 

: Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition products

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

# Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
t-Butyl Acetate	LD50 Oral	Rat	4100 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	_			mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
,	_			uL	
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
•				mg	

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				_	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
t-Butyl Acetate	Eyes - Mild irritant	Rabbit	_	100 uL	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
				uL	
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	_	24 hours 20	-
				mg	
Talc	Skin - Mild irritant	Human	_	72 hours 300	-
				ug I	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	_	87 mg	-
,	Eyes - Severe irritant	Rabbit	_	24 hours 5	_
	'			mg	
	Skin - Mild irritant	Rat	_	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	_	100 %	-
	Skin - Moderate irritant	Rabbit	_	24 hours 500	-
				mg	
Cumene	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
,	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
	L				

# **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Iron Oxide	-	3	-
2-Butoxyethanol	-	3	-
Talc	-	3	-
Xylene, mixed isomers	-	3	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-

## **Reproductive toxicity**

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
t-Butyl Acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Cumene	Category 3	-	Narcotic effects
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Ethylbenzene	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Name	3.3	Route of exposure	Target organs
Light Aromatic Hydrocarbons	Category 2	-	-
Talc	Category 1	inhalation	lungs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	-

## **Aspiration hazard**

Name	Result
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely

: Not available.

routes of exposure

## Potential acute health effects

**Eye contact** : Causes serious eye irritation. **Inhalation** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : May be fatal if swallowed and enters airways.

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

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**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

## **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	9317.5 mg/kg
Inhalation (vapors)	54.16 mg/l

# Section 12. Ecological information

### **Toxicity**

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Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 23.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa -	48 hours
		Copepodid	
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
trimethylbenzene	Acute LC50 5600 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250 ppm Marine water	Fish - Menidia beryllina	96 hours
t-Butyl Acetate	Acute LC50 327000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1,3,5-Trimethylbenzene	Acute LC50 13000 μg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
1,2,4-Trimethylbenzene	Acute LC50 4910 μg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 μg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Cumene	Acute EC50 7.4 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2700 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4900 μg/l Marine water	Algae - Skeletonema costatum	72 hours
-	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

# Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
2-Butoxyethanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily

## **Bioaccumulative potential**

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# **Section 12. Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Light Aromatic Hydrocarbons	-	10 to 2500	High
1,3,5-Trimethylbenzene	-	161	Low
1,2,4-Trimethylbenzene	-	243	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low
Cumene	-	35.48	Low
1,2,3-Trimethylbenzene	-	194.98	Low

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3	3
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

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Additional - information		Product classified as per the following sections	<del>-</del>	Emergency schedules F-I
		of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class		E
		3).		
<u>ER</u>	RG No.	ERG No.	ERG No.	
129	28	128	128	

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according : Not available. to IMO instruments

Proper shipping name : Not available.

# Section 15. Regulatory information

International regulations

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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International lists : Australia inventory (AIIC): Not determined.

> China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

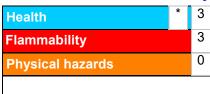
Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

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# Section 16. Other information

## **Hazardous Material Information System (U.S.A.)**



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

#### Procedure used to derive the classification

Classification	Justification	
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
SKIN CORROSION/IRRITATION - Category 2	Calculation method	
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method	
SKIN SENSITIZATION - Category 1	Calculation method	
CARCINOGENICITY - Category 2	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method	
irritation) - Category 3		
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method	
ASPIRATION HAZARD - Category 1	Calculation method	

#### **History**

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revision

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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 SGG = Segregation Group **UN = United Nations** 

Indicates information that has changed from previously issued version.

#### **Notice to reader**

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements

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# Section 16. Other information

are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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