# SAFETY DATA SHEET

## NM5800055

# **Section 1. Identification**

Product name : Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer

Clear 55 Sheen

Product code : NM5800055

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 : AcromaPro Wood Finishes

101 W. Prospect Avenue Cleveland, OH 44115

National contact : AcromaPro Wood Finishes

140 Garden Ave.

Brantford, ON N3S 7W4

**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

: US / Canada: 1-888-277-1448

Telephone Number Mexico: Not Available

**Transportation Emergency** 

**Telephone Number** 

**Product Information** 

: 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 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

**TOXIC TO REPRODUCTION - Category 2** 

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4.9%

(oral), 21.5% (dermal), 19.5% (inhalation)

**GHS** label elements

Hazard pictograms :









Signal word : Danger

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# Section 2. Hazards identification

#### **Hazard statements**

: Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

#### **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. Avoid breathing vapor. 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 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. Immediately call a POISON CENTER or doctor.

#### **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.

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

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

: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

**CAS** number/other identifiers

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# Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
n-Butyl Acetate	17.54	123-86-4
Methyl n-Amyl Ketone	11.7	110-43-0
Ethanol	10.14	64-17-5
Methyl Acetate	8.19	79-20-9
Cellulose Nitrate	6.44	9004-70-0
Lt. Aliphatic Hydrocarbon Solvent	4.89	64742-89-8
Methyl Ethyl Ketone	4.39	78-93-3
1-Butanol	3.8	71-36-3
2-Propanol	3.27	67-63-0
2-Methyl-1-propanol	2.64	78-83-1
Xylene, mixed isomers	0.8	1330-20-7
Light Aromatic Hydrocarbons	0.29	64742-95-6
Ethylbenzene	0.16	100-41-4
Heavy Aliphatic Solvent	0.13	64742-82-1
glyoxal	0.11	107-22-2
trimethylbenzene	0.1	25551-13-7
Methanol	0.1	67-56-1

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** 

: 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.

Inhalation

: 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. 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

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. 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.

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# Section 4. First aid measures

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

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

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

dizziness.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.Ingestion: Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

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

pain watering redness

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

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

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### 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)

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# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

: 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 dioxide carbon monoxide nitrogen 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 Remark

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

: Flammable liquid.

# 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. Do not breathe 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**

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

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**

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: 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.

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# Section 6. Accidental release measures

## 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. 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 ingest. 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

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.

# including any incompatibilities

Conditions for safe storage, : 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**

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Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
n-Butyl Acetate	123-86-4	NIOSH REL (United States, 10/2020).  TWA: 150 ppm 10 hours.  TWA: 710 mg/m³ 10 hours.  STEL: 200 ppm 15 minutes.  STEL: 950 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 150 ppm 8 hours.  TWA: 710 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2024). [Butyl acetates]  STEL: 150 ppm 15 minutes.

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Methyl n-Amyl Ketone		• •		
STEL: 1000 ppm 15 minutes, NIOSH REL (United States, 10/2020). TVA: 1000 ppm 10 hours. TVA: 1900 mg/m³ 10 hours. TVA: 1900 mg/m³ 8 hours. TVA: 200 ppm 8 hours. TVA: 200 ppm 8 hours. TVA: 200 ppm 15 minutes. STEL: 250 ppm 15 minutes. STEL: 260 ppm 16 hours. TVA: 610 mg/m³ 15 minutes. STEL: 260 ppm 16 hours. TVA: 610 mg/m³ 15 minutes. STEL: 760 mg/m³ 15 minutes. STEL: 760 mg/m³ 15 minutes. STEL: 760 mg/m³ 15 minutes. STEL: 1760 ppm 16 hours. TVA: 610 mg/m³ 15 minutes. STEL: 1760 ppm 16 hours. TVA: 250 mg/m³ 16 hours. TVA: 250 mg/m³ 16 hours. TVA: 250 mg/m³ 16 minutes. CEIL: 1800 mg/m³ 15 minutes. STEL: 1800 mg/m³ 16 minutes. STEL: 1800 mg/m³ 16 minutes. STEL: 150 ppm 15 minutes. STEL: 150 ppm 16 minutes. STEL: 1800 mg/m³ 16 hours. TVA: 200 ppm 8 hours. STEL: 1800 mg/m³ 16 minutes. STEL:	Methyl n-Amyl Ketone	110-43-0	ACGIH TLV (United States, 1/2024).  TWA: 50 ppm 8 hours.  TWA: 233 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 100 ppm 10 hours.  TWA: 465 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.	
Methyl Acetate	Ethanol	64-17-5	STEL: 1000 ppm 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 1000 ppm 10 hours.  TWA: 1900 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.	
Lt. Aliphatic Hydrocarbon Solvent    Comparison of the comparison	Methyl Acetate	79-20-9	ACGIH TLV (United States, 1/2024).  TWA: 200 ppm 8 hours.  TWA: 606 mg/m³ 8 hours.  STEL: 250 ppm 15 minutes.  STEL: 757 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 200 ppm 10 hours.  TWA: 610 mg/m³ 10 hours.  STEL: 250 ppm 15 minutes.  STEL: 760 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 200 ppm 8 hours.	
Absorbed through skin.  TWA: 75 ppm 8 hours.  STEL: 150 ppm 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 200 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  STEL: 300 ppm 15 minutes.  STEL: 885 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 200 ppm 8 hours.  TWA: 590 mg/m³ 8 hours.  1-Butanol  71-36-3  ACGIH TLV (United States, 1/2024).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.			NIOSH REL (United States, 10/2020).  [HEXANE ISOMERS]  TWA: 100 ppm 10 hours.  TWA: 350 mg/m³ 10 hours.  CEIL: 510 ppm 15 minutes.  CEIL: 1800 mg/m³ 15 minutes.  ACGIH TLV (United States, 1/2024).  [branched hexane isomers]	
TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.	Methyl Ethyl Ketone	78-93-3	Absorbed through skin.  TWA: 75 ppm 8 hours.  STEL: 150 ppm 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 200 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  STEL: 300 ppm 15 minutes.  STEL: 885 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 200 ppm 8 hours.	
		71-36-3	TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin.	

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2-Propanol	67-63-0	CEIL: 50 ppm CEIL: 150 mg/m³ OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2024). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. NIOSH REL (United States, 10/2020). TWA: 400 ppm 10 hours. TWA: 980 mg/m³ 10 hours. STEL: 500 ppm 15 minutes.
		STEL: 1225 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 400 ppm 8 hours.  TWA: 980 mg/m³ 8 hours.
2-Methyl-1-propanol	78-83-1	ACGIH TLV (United States, 1/2024).  TWA: 50 ppm 8 hours.  TWA: 152 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 50 ppm 10 hours.  TWA: 150 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 300 mg/m³ 8 hours.
Xylene, mixed isomers	1330-20-7	OSHA PEL (United States, 5/2018).  [Xylenes]  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2024). [p-xylene and mixtures containing p-xylene]  Ototoxicant.  TWA: 20 ppm 8 hours.
Light Aromatic Hydrocarbons Ethylbenzene	64742-95-6 100-41-4	None.  ACGIH TLV (United States, 1/2024).  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.
Heavy Aliphatic Solvent glyoxal	64742-82-1 107-22-2	None. ACGIH TLV (United States, 1/2024). Skin sensitizer. TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor OARS WEEL (United States, 4/2022). Skin sensitizer.
trimethylbenzene	25551-13-7	TWA: 0.1 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2024).  [trimethyl benzene, isomers]  TWA: 10 ppm 8 hours.
Methanol	67-56-1	ACGIH TLV (United States, 1/2024).

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# Section 8. Exposure controls/personal protection | Absorbed through skin. | TWA: 200 ppm 8 hours. | TWA: 262 mg/m³ 8 hours. | STEL: 250 ppm 15 minutes. | STEL: 328 mg/m³ 15 minutes. | NIOSH REL (United States, 10/2020). | Absorbed through skin. | TWA: 200 ppm 10 hours. | TWA: 260 mg/m³ 10 hours. | STEL: 250 ppm 15 minutes. | STEL: 325 mg/m³ 15 minutes. | STEL: 325 mg/m³ 15 minutes. | OSHA PEL (United States, 5/2018).

TWA: 200 ppm 8 hours. TWA: 260 mg/m<sup>3</sup> 8 hours.

## Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
n-butyl acetate	123-86-4	CA Alberta Provincial (Canada, 3/2023).  OEL: 200 ppm 15 minutes. OEL: 950 mg/m³ 15 minutes. OEL: 150 ppm 8 hours. OEL: 713 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 200 ppm 15 minutes. TWA: 150 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, 8/2023). [butyl acetate, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 2/2024). [butyl acetates] STEV: 150 ppm 15 minutes. TWAEV: 50 ppm 8 hours.
Methyl n-amyl ketone	110-43-0	CA Alberta Provincial (Canada, 3/2023).  OEL: 233 mg/m³ 8 hours. OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023).  TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019).  TWA: 25 ppm 8 hours. TWA: 115 mg/m³ 8 hours. CA Quebec Provincial (Canada, 2/2024).  TWAEV: 50 ppm 8 hours. TWAEV: 233 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Ethyl alcohol	64-17-5	CA Alberta Provincial (Canada, 3/2023). OEL: 1000 ppm 8 hours.

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OEL: 1880 mg/m<sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 8/2023). STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). STEL: 1000 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 4/2021). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 2/2024). STEV: 1000 ppm 15 minutes. 79-20-9 CA Alberta Provincial (Canada, 3/2023). Methyl acetate OEL: 606 mg/m<sup>3</sup> 8 hours. OEL: 757 mg/m<sup>3</sup> 15 minutes. OEL: 250 ppm 15 minutes. OEL: 200 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes. CA Quebec Provincial (Canada, 2/2024). TWAEV: 200 ppm 8 hours. TWAEV: 606 mg/m<sup>3</sup> 8 hours. STEV: 250 ppm 15 minutes. STEV: 757 mg/m<sup>3</sup> 15 minutes. CA Saskatchewan Provincial (Canada, 4/2021). STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours. Lt. Aliphatic Hydrocarbon Solvent 64742-89-8 CA Saskatchewan Provincial (Canada, 4/2021). [Hexane] STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). [Hexane, all isomers except n-Hexane1 TWA: 200 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Hexane isomers, other than n-hexane] TWA: 500 ppm 8 hours. STEL: 1000 ppm 15 minutes. CA Quebec Provincial (Canada, 2/2024). [Hexane] TWAEV: 500 ppm 8 hours. TWAEV: 1760 mg/m<sup>3</sup> 8 hours. STEV: 1000 ppm 15 minutes. STEV: 3500 mg/m<sup>3</sup> 15 minutes. CA Alberta Provincial (Canada, 3/2023). [Dimethylbutane] OEL: 1760 mg/m<sup>3</sup> 8 hours. OEL: 1000 ppm 15 minutes. OEL: 3500 mg/m<sup>3</sup> 15 minutes.

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OEL: 500 ppm 8 hours.

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Methyl ethyl ketone	78-93-3	CA Alberta Provincial (Canada, 3/2023).  OEL: 300 ppm 15 minutes. OEL: 200 ppm 8 hours. OEL: 590 mg/m³ 8 hours. OEL: 885 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin.  TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019).  TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes. CA Quebec Provincial (Canada, 2/2024).  TWAEV: 50 ppm 8 hours.  TWAEV: 150 mg/m³ 8 hours. STEV: 100 ppm 15 minutes. STEV: 300 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.
Normal butyl alcohol	71-36-3	CA Alberta Provincial (Canada, 3/2023).  OEL: 60 mg/m³ 8 hours.  OEL: 20 ppm 8 hours.  CA British Columbia Provincial (Canada, 8/2023).  TWA: 15 ppm 8 hours.  C: 30 ppm  CA Ontario Provincial (Canada, 6/2019).  TWA: 20 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 30 ppm 15 minutes.  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 2/2024).  TWAEV: 20 ppm 8 hours.
Isopropyl alcohol	67-63-0	CA Alberta Provincial (Canada, 3/2023).  OEL: 984 mg/m³ 15 minutes.  OEL: 200 ppm 8 hours.  OEL: 400 ppm 15 minutes.  OEL: 492 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 8/2023).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Quebec Provincial (Canada, 2/2024).  TWAEV: 200 ppm 8 hours.  STEV: 400 ppm 15 minutes.  CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 400 ppm 15 minutes.  CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 400 ppm 15 minutes.  TWA: 200 ppm 8 hours.
Isobutyl alcohol	78-83-1	CA Alberta Provincial (Canada, 3/2023). OEL: 50 ppm 8 hours.
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Section 8. Exposure controls/personal protection		
		OEL: 152 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 8/2023).  TWA: 50 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 50 ppm 8 hours.  CA Quebec Provincial (Canada, 2/2024).  TWAEV: 50 ppm 8 hours.  TWAEV: 152 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 4/2021).  STEL: 60 ppm 15 minutes.  TWA: 50 ppm 8 hours.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 3/2023).  [Dimethylbenzene]  OEL: 100 ppm 8 hours. OEL: 651 mg/m³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 8/2023). [Xylene (o, m & p isomers)]  TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 2/2024).  [Xylene]  TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 450 ppm 15 minutes. STEV: 651 mg/m³ 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, 4/2021). [Xylene]  STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 3/2023).  OEL: 100 ppm 8 hours. OEL: 434 mg/m³ 8 hours. OEL: 543 mg/m³ 15 minutes. OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2023).  TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 2/2024). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 4/2021). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Glyoxal	107-22-2	CA Saskatchewan Provincial (Canada, 4/2021). Skin sensitizer. Inhalation sensitizer.  STEL: 0.3 mg/m³ 15 minutes. Form:

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<u> </u>	•	
		Inhalable fraction and vapour TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapour CA Ontario Provincial (Canada, 6/2019). TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapour. CA Alberta Provincial (Canada, 3/2023). OEL: 0.1 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). Skin sensitizer. Notes: vapour and inhalable aerosol. TWA: 0.1 mg/m³ 8 hours. Form: Inhalable vapour and aerosol
Methyl alcohol	67-56-1	CA Alberta Provincial (Canada, 3/2023).  Absorbed through skin.  OEL: 262 mg/m³ 8 hours.  OEL: 250 ppm 15 minutes.  OEL: 328 mg/m³ 15 minutes.  CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin.  TWA: 200 ppm 8 hours.  STEL: 250 ppm 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  Absorbed through skin.  TWA: 200 ppm 8 hours.  STEL: 250 ppm 15 minutes.  CA Quebec Provincial (Canada, 2/2024).  Absorbed through skin.  TWAEV: 200 ppm 8 hours.  STEL: 250 ppm 15 minutes.  CA Quebec Provincial (Canada, 2/2024).  Absorbed through skin.  TWAEV: 262 mg/m³ 8 hours.  STEV: 328 mg/m³ 15 minutes.  STEV: 328 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 4/2021). Absorbed through skin.  STEL: 250 ppm 15 minutes.  TWA: 200 ppm 8 hours.

# Occupational exposure limits (Mexico)

Ingredient name	CAS#	Exposure limits
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
Ethanol	64-17-5	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes.
Methyl Acetate	79-20-9	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	ACGIH TLV (United States, 1/2024). [branched hexane isomers] TWA: 200 ppm 8 hours.
Methyl Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.

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1-Butanol	71-36-3	NOM-010-STPS-2014 (Mexico, 4/2016).
		Absorbed through skin.
		TWA: 20 ppm 8 hours.
2-Propanol	67-63-0	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 200 ppm 8 hours.
		STEL: 400 ppm 15 minutes.
2-Methyl-1-propanol	78-83-1	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 50 ppm 8 hours.
Methanol	67-56-1	NOM-010-STPS-2014 (Mexico, 4/2016).
		Absorbed through skin.
		TWA: 200 ppm 8 hours.
		STEL: 250 ppm 15 minutes.
I .		1

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

Ingredient name	Exposure indices
Methyl Ethyl Ketone	ACGIH BEI (United States, 1/2024) BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
2-Propanol	ACGIH BEI (United States, 1/2024) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
Xylene, mixed isomers	ACGIH BEI (United States, 1/2024) [xylenes (technical or commercial grades)] BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	ACGIH BEI (United States, 1/2024) BEI: 150 mg/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Methanol	ACGIH BEI (United States, 1/2024) BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.

# Biological exposure indices (Canada)

No exposure indices known.

# **Biological exposure indices (Mexico)**

Ingredient name	Exposure indices
Methyl Ethyl Ketone	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 2 mg/L, MEK [in urine]. Sampling time: at the end of the work shift.
2-Propanol	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 40 mg/L [non-specific.The determinant

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is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the shift at the end of the work week.

Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)

BEI: 15 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific. The determinant is nonspecific, since it can be found after exposure to other chemicals.], methane [in urine]. Sampling time: 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

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

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

# **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.

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

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

#### **Appearance**

Physical state : Liquid.
Color : Clear.

Odor : Not available.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling : 55°C (131°F)

point, and boiling range

Flash point : Closed cup: -2°C (28.4°F) [Pensky-Martens Closed Cup]

Evaporation rate : 5.6 (butyl acetate = 1)
Flammability : Flammable liquid.
Lower and upper explosion : Lower: 0.9%

limit/flammability limit

Upper: 19%

Vapor pressure : 22.8 kPa (171 mm Hg)

**Relative vapor density** : 1.5 [Air = 1]

Relative density : 0.92

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 mm²/s (>20.5 cSt)

Molecular weight : Not applicable.

Heat of combustion : 23.449 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
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Methyl Acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
glyoxal	LD50 Oral	Rat	200 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

**Irritation/Corrosion** 

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Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.06666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	_	24 hours 20	-
				mg	
Methyl Acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
,				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	_	24 hours 14	-
	- Ann man man	. CODDIC		mg	
	Skin - Moderate irritant	Rabbit	_	24 hours 500	1_
	OAII WOOGIALO IIIILAIIL	TADDIT		mg	
1-Butanol	Eyes - Severe irritant	Rabbit	_	0.005 MI	1_
	Eyes - Severe irritant	Rabbit		24 hours 2	
	Lyes - Severe Illiani	างสมมเ	-		1-
	Skin - Moderate irritant	Rabbit		mg 24 hours 20	
	Skiii - Moderate ii itarit	Nabbit	-		<del>-</del>
2 Drananal	Eves Mederate irritant	Dobbit		mg	
2-Propanol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Even Sovere initent	Dobbit		mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
Valore melan 12	Skin - Mild irritant	Rabbit	-	500 mg	-
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	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				uL	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
glyoxal	Eyes - Mild irritant	Rabbit	-	100 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				uL	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	_	258 mg	-
	Skin - Mild irritant	Rabbit	_	4 hours 500	_
	Otto Wind Illiant	TADDIC		uL	
trimethylbenzene	Eyes - Mild irritant	Rabbit	1_	24 hours 500	_
unneuryiberizerie	Lyes - Mila IIIIalit	TADDIL	-		1
	Skin Moderate irritant	Dahhit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-

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Methanol	Eyes - Moderate irritant	Rabbit	-	mg 24 hours 100 mg	-
		Rabbit		40 mg	-
		Rabbit Rabbit		0.1 MI 24 hours 20	-
	Skiii - Woderale IIIIlaiii	Nappil	-	mg	-

## **Sensitization**

Not available.

# **Mutagenicity**

Not available.

# **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Ethanol	-	1	-
2-Propanol	-	3	-
Xylene, mixed isomers	-	3	-
Ethylbenzene	-	2B	-

# **Reproductive toxicity**

Not available.

## **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
n-Butyl Acetate	Category 3	-	Narcotic effects
Methyl n-Amyl Ketone	Category 3	-	Narcotic effects
Ethanol	Category 3	-	Narcotic effects
Methyl Acetate	Category 3	-	Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	-	Narcotic effects
Methyl Ethyl Ketone	Category 3	-	Narcotic effects
1-Butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-Propanol	Category 3	-	Narcotic effects
2-Methyl-1-propanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethylbenzene	Category 3	-	Narcotic effects
Heavy Aliphatic Solvent	Category 3	-	Narcotic effects
Methanol	Category 1	-	-
	Category 3		Narcotic effects

# Specific target organ toxicity (repeated exposure)

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Name		Route of exposure	Target organs
Xylene, mixed isomers Ethylbenzene	Category 2 Category 2	-	-
Heavy Aliphatic Solvent	Category 1	-	central nervous system (CNS)

#### **Aspiration hazard**

Name	Result
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

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

dizziness.

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

**Ingestion** : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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

pain watering redness

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

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

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

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**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: 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: Suspected of damaging the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

# **Numerical measures of toxicity**

**Acute toxicity estimates** 

Route	ATE value
Oral	8223.29 mg/kg
Dermal	41488.33 mg/kg
Inhalation (vapors)	75.67 mg/l

# **Section 12. Ecological information**

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki -	12 weeks
		Larvae	
Methyl Acetate	Acute LC50 320000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Cellulose Nitrate	Acute EC50 579000 μg/l Fresh water	Algae - Raphidocelis subcapitata	96 hours
Lt. Aliphatic Hydrocarbon	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Solvent			
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours

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	<u> </u>		
		Larvae	
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1-Butanol	Acute EC50 1983 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-Propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
	_	Neonate	
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
2-Methyl-1-propanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Raphidocelis subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Raphidocelis subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
glyoxal	Acute EC50 66480 µg/l Fresh water	Algae - Raphidocelis subcapitata	96 hours
	Acute LC50 215000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
,	. •	pugio	
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon -	48 hours
		Adult	
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
		,	

# Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Methyl n-Amyl Ketone	-	-	Readily
Ethanol	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
1-Butanol	-	-	Readily
2-Propanol	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Ethylbenzene	-	-	Readily

# **Bioaccumulative potential**

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Product/ingredient name	LogPow	BCF	Potential
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	High
Xylene, mixed isomers	-	8.1 to 25.9	Low
Light Aromatic Hydrocarbons	-	10 to 2500	High
Heavy Aliphatic Solvent	-	10 to 2500	High
glyoxal	-	3.2	Low
Methanol	-	<10	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** 

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

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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Clear 55 Sheen

# Section 14. Transport information **Additional** Product classified **Emergency** information as per the schedules F-E, Sfollowing sections of the Transportation of **Dangerous Goods** Regulations: 2.18-2.19 (Class 3). **ERG No.** ERG No. **ERG No.** 128 128 128

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

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity).

## **International regulations**

## **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Annex A - Elimination - Production Annex A - Elimination - Use		Listed Listed

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.

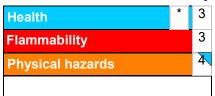
Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

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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 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	On basis of test data Calculation method

#### **History**

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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 are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is

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# Section 16. Other information

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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