# 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

Product Information Telephone Number

: US / Canada: 1-888-277-1448 Mexico: Not Available

**Transportation Emergency** 

Emergency : US / Canada: (800) 424-9300

**Telephone Number** 

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, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should 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. 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 Disposal

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

: 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.

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# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

Ingredient name	% by weight	Identifiers
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

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#### Section 3. Composition/information on ingredients 2-Methyl-1-propanol 2.64 78-83-1 Xylene, mixed isomers 8.0 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.

### 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

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### Section 4. First aid measures

**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)

# 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

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# Section 5. Fire-fighting measures

# 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**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

# 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

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# Section 7. Handling and storage

### Advice on general occupational hygiene

retain product residue and can be hazardous. Do not reuse container.

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

### Conditions for safe storage, including any incompatibilities

: 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
n-Butyl Acetate	123-86-4	ACGIH TLV (United States, 1/2024) [Butyl acetates]  STEL 15 minutes: 150 ppm.  TWA 8 hours: 50 ppm.  NIOSH REL (United States, 10/2020)  TWA 10 hours: 150 ppm.  TWA 10 hours: 710 mg/m³.  STEL 15 minutes: 200 ppm.  STEL 15 minutes: 950 mg/m³.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 150 ppm.  TWA 8 hours: 710 mg/m³.
Methyl n-Amyl Ketone	110-43-0	ACGIH TLV (United States, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 233 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 465 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 465 mg/m³.
Ethanol	64-17-5	ACGIH TLV (United States, 1/2024) A3.  STEL 15 minutes: 1000 ppm.  NIOSH REL (United States, 10/2020)  TWA 10 hours: 1000 ppm.  TWA 10 hours: 1900 mg/m³.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 1000 ppm.  TWA 8 hours: 1900 mg/m³.
Methyl Acetate	79-20-9	ACGIH TLV (United States, 1/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 606 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 757 mg/m³. NIOSH REL (United States, 10/2020)

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		TWA 10 hours: 200 ppm. TWA 10 hours: 610 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 760 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 610 mg/m³.
Cellulose Nitrate Lt. Aliphatic Hydrocarbon Solvent	9004-70-0 64742-89-8	None. ACGIH TLV (United States, 1/2024) [branched hexane isomers] A3. TWA 8 hours: 200 ppm. ACGIH TLV (United States, 1/2024) [hexane] A3. Absorbed through skin. TWA 8 hours: 100 ppm. NIOSH REL (United States, 10/2020) [HEXANE ISOMERS] TWA 10 hours: 100 ppm. TWA 10 hours: 350 mg/m³. CEIL 15 minutes: 510 ppm.
Methyl Ethyl Ketone	78-93-3	CEIL 15 minutes: 1800 mg/m³.  ACGIH TLV (United States, 1/2024)  Absorbed through skin.  TWA 8 hours: 75 ppm.  STEL 15 minutes: 150 ppm.  NIOSH REL (United States, 10/2020)  TWA 10 hours: 200 ppm.  TWA 10 hours: 590 mg/m³.  STEL 15 minutes: 300 ppm.  STEL 15 minutes: 885 mg/m³.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 200 ppm.  TWA 8 hours: 590 mg/m³.
1-Butanol	71-36-3	ACGIH TLV (United States, 1/2024) TWA 8 hours: 20 ppm. NIOSH REL (United States, 10/2020) Absorbed through skin. CEIL: 50 ppm. CEIL: 150 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³.
2-Propanol	67-63-0	ACGIH TLV (United States, 1/2024) A4.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 400 ppm.  NIOSH REL (United States, 10/2020)  TWA 10 hours: 400 ppm.  TWA 10 hours: 980 mg/m³.  STEL 15 minutes: 500 ppm.  STEL 15 minutes: 1225 mg/m³.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 400 ppm.  TWA 8 hours: 980 mg/m³.
2-Methyl-1-propanol	78-83-1	ACGIH TLV (United States, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 50 ppm.

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Xylene, mixed isomers	1330-20-7	TWA 10 hours: 150 mg/m³.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 100 ppm.  TWA 8 hours: 300 mg/m³.  ACGIH TLV (United States, 1/2024) [p-xylene and mixtures containing p-xylene]  A4. Ototoxicant.  TWA 8 hours: 20 ppm.
Light Aromatic Hydrocarbons Ethylbenzene	64742-95-6 100-41-4	OSHA PEL (United States, 5/2018)  [Xylenes]  TWA 8 hours: 100 ppm.  TWA 8 hours: 435 mg/m³.  None.  ACGIH TLV (United States, 1/2024) A3.
		Ototoxicant. TWA 8 hours: 20 ppm.  NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 435 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³.
Heavy Aliphatic Solvent glyoxal	64742-82-1 107-22-2	None.  ACGIH TLV (United States, 1/2024) A4.  Skin sensitizer.  TWA 8 hours: 0.1 mg/m³. Form: Inhalable fraction and vapor.  OARS WEEL (United States, 6/2024) Skin sensitizer.  TWA 8 hours: 0.1 mg/m³.
trimethylbenzene	25551-13-7	ACGIH TLV (United States, 1/2024) [trimethyl benzene, isomers] TWA 8 hours: 10 ppm.
Methanol	67-56-1	ACGIH TLV (United States, 1/2024) Absorbed through skin. TWA 8 hours: 200 ppm. TWA 8 hours: 262 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 328 mg/m³. NIOSH REL (United States, 10/2020) Absorbed through skin. TWA 10 hours: 200 ppm. TWA 10 hours: 260 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 325 mg/m³.
		OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 260 mg/m³.

Occupational exposure limits (Canada)

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Ingredient name	CAS#	Exposure limits
n-butyl acetate	123-86-4	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 200 ppm.  TWA 8 hours: 150 ppm.  CA British Columbia Provincial (Canada, 4/2024) [butyl acetate, all isomers]  STEL 15 minutes: 150 ppm.  TWA 8 hours: 50 ppm.  CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers]  STEL 15 minutes: 150 ppm.  TWA 8 hours: 50 ppm.  CA Quebec Provincial (Canada, 2/2024) [butyl acetates]  STEV 15 minutes: 150 ppm.  TWAEV 8 hours: 50 ppm.  CA Alberta Provincial (Canada, 3/2023)  OEL 15 minutes: 200 ppm.  OEL 15 minutes: 950 mg/m³.  OEL 8 hours: 150 ppm.  OEL 8 hours: 713 mg/m³.
Methyl n-amyl ketone	110-43-0	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 60 ppm.  TWA 8 hours: 50 ppm.  CA British Columbia Provincial (Canada, 4/2024)  TWA 8 hours: 50 ppm.  CA Ontario Provincial (Canada, 6/2019)  TWA 8 hours: 25 ppm.  TWA 8 hours: 115 mg/m³.  CA Quebec Provincial (Canada, 2/2024)  TWAEV 8 hours: 50 ppm.  TWAEV 8 hours: 233 mg/m³.  CA Alberta Provincial (Canada, 3/2023)  OEL 8 hours: 233 mg/m³.  OEL 8 hours: 50 ppm.
Ethyl alcohol	64-17-5	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 1250 ppm.  TWA 8 hours: 1000 ppm.  CA British Columbia Provincial (Canada, 4/2024)  STEL 15 minutes: 1000 ppm.  CA Ontario Provincial (Canada, 6/2019)  STEL 15 minutes: 1000 ppm.  CA Quebec Provincial (Canada, 2/2024)  C3.  STEV 15 minutes: 1000 ppm.  CA Alberta Provincial (Canada, 3/2023)  OEL 8 hours: 1000 ppm.  OEL 8 hours: 1880 mg/m³.
Methyl acetate	79-20-9	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 250 ppm.

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### Section 8. Exposure controls/personal protection TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 200 ppm. TWAEV 8 hours: 606 mg/m<sup>3</sup>. STEV 15 minutes: 250 ppm. STEV 15 minutes: 757 mg/m<sup>3</sup>. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 606 mg/m<sup>3</sup>. OEL 15 minutes: 757 mg/m<sup>3</sup>. OEL 15 minutes: 250 ppm. OEL 8 hours: 200 ppm. 64742-89-8 CA Saskatchewan Provincial (Canada, Lt. Aliphatic Hydrocarbon Solvent 4/2021) [Hexane] STEL 15 minutes: 1000 ppm. TWA 8 hours: 500 ppm. CA British Columbia Provincial (Canada, 4/2024) [hexane, all isomers except nhexane] TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) [hexane] Absorbed through skin. Notes: No British Columbia exposure limit at CA Ontario Provincial (Canada, 6/2019) [Hexane isomers, other than n-hexane] TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm. CA Quebec Provincial (Canada, 2/2024) [Hexane] TWAEV 8 hours: 500 ppm. TWAEV 8 hours: 1760 mg/m<sup>3</sup>. STEV 15 minutes: 1000 ppm. STEV 15 minutes: 3500 mg/m<sup>3</sup>. CA Alberta Provincial (Canada, 3/2023) [Dimethylbutane] OEL 8 hours: 1760 mg/m<sup>3</sup>. OEL 15 minutes: 1000 ppm. OEL 15 minutes: 3500 mg/m<sup>3</sup>. OEL 8 hours: 500 ppm. CA Alberta Provincial (Canada, 3/2023) [Hexane] OEL 8 hours: 1760 mg/m<sup>3</sup>. OEL 8 hours: 500 ppm. OEL 15 minutes: 3500 ma/m<sup>3</sup>. OEL 15 minutes: 1000 ppm. Methyl ethyl ketone 78-93-3 CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 300 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada,

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		4/2024) Repr. Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 150 mg/m³. STEV 15 minutes: 100 ppm. STEV 15 minutes: 300 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 15 minutes: 300 ppm. OEL 8 hours: 200 ppm. OEL 8 hours: 590 mg/m³. OEL 15 minutes: 885 mg/m³.
Normal butyl alcohol	71-36-3	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 30 ppm.  TWA 8 hours: 20 ppm.  CA British Columbia Provincial (Canada, 4/2024)  TWA 8 hours: 15 ppm.  C: 30 ppm.  CA Ontario Provincial (Canada, 6/2019)  TWA 8 hours: 20 ppm.  CA Quebec Provincial (Canada, 2/2024)  TWAEV 8 hours: 20 ppm.  CA Alberta Provincial (Canada, 3/2023)  OEL 8 hours: 60 mg/m³.  OEL 8 hours: 20 ppm.
Isopropyl alcohol	67-63-0	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 400 ppm.  TWA 8 hours: 200 ppm.  CA British Columbia Provincial (Canada, 4/2024)  TWA 8 hours: 200 ppm.  STEL 15 minutes: 400 ppm.  CA Ontario Provincial (Canada, 6/2019)  TWA 8 hours: 200 ppm.  STEL 15 minutes: 400 ppm.  CA Quebec Provincial (Canada, 2/2024)  TWAEV 8 hours: 200 ppm.  STEV 15 minutes: 400 ppm.  CA Alberta Provincial (Canada, 3/2023)  OEL 15 minutes: 984 mg/m³.  OEL 8 hours: 200 ppm.  OEL 15 minutes: 400 ppm.  OEL 8 hours: 492 mg/m³.
Isobutyl alcohol	78-83-1	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 50 ppm.
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Dection of Exposure controls/p	Ci Soliai pio	
		CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 50 ppm. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 152 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 50 ppm. OEL 8 hours: 152 mg/m³.
Xylene	1330-20-7	CA Saskatchewan Provincial (Canada, 4/2021) [Xylene]  STEL 15 minutes: 150 ppm.  TWA 8 hours: 100 ppm.  CA British Columbia Provincial (Canada, 4/2024) [xylene (o, m & p isomers)]  TWA 8 hours: 100 ppm.  STEL 15 minutes: 150 ppm.  CA Ontario Provincial (Canada, 6/2019)  [Xylene (o-, m-, p-isomers)]  STEL 15 minutes: 150 ppm.  TWA 8 hours: 100 ppm.  CA Quebec Provincial (Canada, 2/2024)  [Xylene]  TWAEV 8 hours: 100 ppm.  TWAEV 8 hours: 434 mg/m³.  STEV 15 minutes: 150 ppm.  STEV 15 minutes: 651 mg/m³.  CA Alberta Provincial (Canada, 3/2023)  [Dimethylbenzene]  OEL 8 hours: 100 ppm.  OEL 15 minutes: 651 mg/m³.  OEL 15 minutes: 150 ppm.  OEL 15 minutes: 434 mg/m³.
Ethylbenzene	100-41-4	CA Saskatchewan Provincial (Canada, 4/2021)  STEL 15 minutes: 125 ppm.  TWA 8 hours: 100 ppm.  CA British Columbia Provincial (Canada, 4/2024) Carc 2B.  TWA 8 hours: 20 ppm.  CA Ontario Provincial (Canada, 6/2019)  TWA 8 hours: 20 ppm.  CA Quebec Provincial (Canada, 2/2024)  C3.  TWAEV 8 hours: 20 ppm.  CA Alberta Provincial (Canada, 3/2023)  OEL 8 hours: 100 ppm.  OEL 8 hours: 434 mg/m³.  OEL 15 minutes: 543 mg/m³.  OEL 15 minutes: 125 ppm.
Glyoxal	107-22-2	CA Saskatchewan Provincial (Canada, 4/2021) Sensitizer.  STEL 15 minutes: 0.3 mg/m³. Form: Inhalable fraction and vapour.  TWA 8 hours: 0.1 mg/m³. Form: Inhalable fraction and vapour.  CA British Columbia Provincial (Canada, 4/2024) Skin sensitizer. Notes: vapour and
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	<u>-</u>	
		inhalable aerosol.  TWA 8 hours: 0.1 mg/m³. Form: Inhalable vapour and aerosol.  CA Ontario Provincial (Canada, 6/2019)  TWA 8 hours: 0.1 mg/m³. Form: Inhalable fraction and vapour  CA Alberta Provincial (Canada, 3/2023)  OEL 8 hours: 0.1 mg/m³.
Methyl alcohol	67-56-1	CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin.  STEL 15 minutes: 250 ppm.  TWA 8 hours: 200 ppm.  CA British Columbia Provincial (Canada, 4/2024) Absorbed through skin.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 250 ppm.  CA Ontario Provincial (Canada, 6/2019)  Absorbed through skin.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 250 ppm.  CA Quebec Provincial (Canada, 2/2024)  Absorbed through skin.  TWAEV 8 hours: 200 ppm.  TWAEV 8 hours: 200 ppm.  STEV 15 minutes: 250 ppm.  STEV 15 minutes: 328 mg/m³.  CA Alberta Provincial (Canada, 3/2023)  Absorbed through skin.  OEL 8 hours: 262 mg/m³.  OEL 8 hours: 262 mg/m³.  OEL 8 hours: 250 ppm.  OEL 15 minutes: 328 mg/m³.

### Occupational exposure limits (Mexico)

Ingredient name	CAS#	Exposure limits
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm.
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 50 ppm.
Ethanol	64-17-5	NOM-010-STPS-2014 (Mexico, 4/2016) A3. STEL 15 minutes: 1000 ppm.
Methyl Acetate	79-20-9	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	ACGIH TLV (United States, 1/2024) [branched hexane isomers] A3. TWA 8 hours: 200 ppm. ACGIH TLV (United States, 1/2024) [hexane] A3. Absorbed through skin. TWA 8 hours: 100 ppm.
Methyl Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm.
1-Butanol	71-36-3	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 20 ppm.

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2-Propanol	67-63-0	NOM-010-STPS-2014 (Mexico, 4/2016) A4.
		TWA 8 hours: 200 ppm.
		STEL 15 minutes: 400 ppm.
2-Methyl-1-propanol	78-83-1	NOM-010-STPS-2014 (Mexico, 4/2016)
		TWA 8 hours: 50 ppm.
Methanol	67-56-1	NOM-010-STPS-2014 (Mexico, 4/2016)
		Absorbed through skin.
		TWA 8 hours: 200 ppm.
		STEL 15 minutes: 250 ppm.

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

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Methanol

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

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

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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.

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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. Ha : Not applicable. : Not available. **Melting point/freezing point Boiling point or initial** : 55°C (131°F) boiling point and boiling

range

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

**Evaporation rate** : 5.6 (butyl acetate = 1) **Flammability** : Flammable liquid. Lower and upper explosion : Lower: 0.9% Upper: 19%

limit/flammability limit Vapor pressure

: 22.8 kPa (171 mm Hg)

**Relative vapor density** 1.5 [Air = 1] **Relative density** : 0.92

: 0.92 g/cm<sup>3</sup> **Density** 

Solubility(ies)

Media	Result
cold water	Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

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

**Viscosity** Dynamic (room temperature): Not available.

> Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >20.5 mm<sup>2</sup>/s (>20.5 cSt)

**Molecular weight** Not applicable.

**Particle characteristics** 

Median particle size : Not applicable. **Heat of combustion** : 22.3 kJ/g

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### Section 10. Stability and reactivity

Reactivity : No specific test data related to

: 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

n-Butyl Acetate Rat - Oral - LD50

10768 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver -

Other changes

Rabbit - Dermal - LD50

>17600 mg/kg

Methyl n-Amyl Ketone Rat - Oral - LD50

1600 mg/kg

Toxic effects: Behavioral - Ataxia Lung, Thorax, or Respiration -

Respiratory depression

Ethanol Rat - Oral - LD50

7 g/kg

Rat - Inhalation - LC50 Vapor

124700 mg/m<sup>3</sup> [4 hours]

Methyl Acetate Rat - Oral - LD50

>5 g/kg

Rabbit - Dermal - LD50

>5 g/kg

Cellulose Nitrate Rat - Oral - LD50

>5 g/kg

Methyl Ethyl Ketone Rabbit - Dermal - LD50

6480 mg/kg **Rat - Oral - LD50** 2737 mg/kg **Rat - Oral - LD50** 

1-Butanol Rat - Oral - LD5

790 mg/kg

Toxic effects: Liver - Fatty liver degeneration Kidney, Ureter, and

Bladder - Other changes Blood - Other changes

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapor

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24000 mg/m³ [4 hours]
2-Propanol Rabbit - Dermal - LD50

12800 mg/kg **Rat - Oral - LD50** 5000 mg/kg

Toxic effects: Behavioral - General anesthetic

2-Methyl-1-propanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapor

19200 mg/m³ [4 hours]

Xylene, mixed isomers Rat - Oral - LD50

4300 mg/kg

<u>Toxic effects</u>: Liver - Other changes Kidney, Ureter, and Bladder -

Other changes

Rat - Inhalation - LC50 Gas.

6700 ppm [4 hours]

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed

activity)

Light Aromatic Hydrocarbons Rat - Oral - LD50

8400 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other

changes

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder -

Other changes

Rabbit - Dermal - LD50

>5000 mg/kg **Rat - Oral - LD50** 

200 mg/kg

Toxic effects: Behavioral - Muscle weakness

trimethylbenzene Rat - Oral - LD50

8970 mg/kg

Methanol Rabbit - Dermal - LD50

15800 mg/kg **Rat - Oral - LD50** 5600 mg/kg

Rat - Inhalation - LC50 Gas.

145000 ppm [1 hours]
Rat - Inhalation - LC50 Gas.

64000 ppm [4 hours]

**Conclusion/Summary [Product]**: Not available.

**Skin corrosion/irritation** 

glyoxal

Product/ingredient name Result

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Methyl Acetate

Methyl Ethyl Ketone

1-Butanol

2-Propanol

Ethylbenzene

trimethylbenzene

glyoxal

Methanol

Xylene, mixed isomers

n-Butyl Acetate Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 500 mg

Methyl n-Amyl Ketone Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 14 mg

Ethanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 400 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours

<u>Amount/concentration applied</u>: 20 mg

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 14 mg

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 402 mg **Rabbit - Skin - Moderate irritant** 

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Rat - Skin - Mild irritant

Duration of treatment/exposure: 8 hours
Amount/concentration applied: 60 uL
Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 500 mg
Rabbit - Skin - Moderate irritant
Amount/concentration applied: 100 %

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 15 mg

Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 4 hours <u>Amount/concentration applied</u>: 500 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 258 mg
Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 20 mg

**Conclusion/Summary [Product]**: Not available.

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Serious eye damage/eye irritation Product/ingredient name Result n-Butyl Acetate Rabbit - Eves - Moderate irritant Amount/concentration applied: 100 mg Ethanol Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg Rabbit - Eves - Moderate irritant Duration of treatment/exposure: 0.06666667 minutes Amount/concentration applied: 100 mg Rabbit - Eyes - Moderate irritant Amount/concentration applied: 100 uL Rabbit - Eyes - Severe irritant Amount/concentration applied: 500 mg Methyl Acetate Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg 1-Butanol Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.005 MI Rabbit - Eyes - Severe irritant Amount/concentration applied: 1.62 mg 2-Propanol Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg Rabbit - Eyes - Moderate irritant Amount/concentration applied: 10 mg Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg Rabbit - Eyes - Mild irritant Xylene, mixed isomers Amount/concentration applied: 87 mg Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg Rabbit - Eyes - Mild irritant Light Aromatic Hydrocarbons Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL Ethylbenzene Rabbit - Eyes - Severe irritant Amount/concentration applied: 500 mg glyoxal Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 uL Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg Rabbit - Eyes - Moderate irritant Amount/concentration applied: 40 mg

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trimethylbenzene

Methanol

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Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

**Conclusion/Summary [Product]**: Not available.

Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]**: Not available.

Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]**: Not available.

Respiratory

**Conclusion/Summary [Product]** : Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### **Classification**

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

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]**: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

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n-Butyl Acetate SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Methyl n-Amyl Ketone SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Ethanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Methyl Acetate SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Lt. Aliphatic Hydrocarbon Solvent SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Methyl Ethyl Ketone SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

1-Butanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

2-Propanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

2-Methyl-1-propanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Xylene, mixed isomers SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Light Aromatic Hydrocarbons SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Ethylbenzene SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Heavy Aliphatic Solvent SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Methanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Xylene, mixed isomers SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Ethylbenzene SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Heavy Aliphatic Solvent SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) (central nervous system (CNS)) - Category 1

**Aspiration hazard** 

Product/ingredient 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

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### 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

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.

**Conclusion/Summary [Product]**: Not available.

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**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.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Bernyl™ FF Hi-Bild Pre-Catalyzed Lacquer	8223.3	41488.3	N/A	75.7	N/A
n-Butyl Acetate	10768	N/A	N/A	N/A	N/A
Methyl n-Amyl Ketone	1600	N/A	N/A	11	N/A
Ethanol	7000	N/A	N/A	124.7	N/A
Methyl Ethyl Ketone	2737	6480	N/A	N/A	N/A
1-Butanol	2500	3400	N/A	24	N/A
2-Propanol	5000	12800	N/A	N/A	N/A
2-Methyl-1-propanol	2460	3400	N/A	N/A	N/A
Xylene, mixed isomers	4300	2500	N/A	N/A	N/A
Light Aromatic Hydrocarbons	8400	N/A	N/A	N/A	N/A
Ethylbenzene	3500	N/A	N/A	11	N/A
glyoxal	2500	N/A	N/A	11	N/A
trimethylbenzene	500	N/A	N/A	11	N/A
Methanol	100	300	64000	3	N/A

# **Section 12. Ecological information**

**Toxicity** 

Product/ingredient name Result

n-Butyl Acetate Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g

18 mg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

32 mg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water Methyl n-Amyl Ketone

> Fish - Fathead minnow - Pimephales promelas Age: 32 days; Size: 18.4 mm; Weight: 0.095 g

131 mg/l [96 hours] Effect: Mortality

Ethanol Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

42 mg/l [4 days] Effect: Mortality

Acute - EC50 - Marine water Algae - Green algae - Ulva pertusa

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Methyl Acetate

Cellulose Nitrate

1-Butanol

17.921 mg/l [96 hours] Effect: Reproduction

Chronic - NOEC - Marine water Algae - Green algae - *Ulva pertusa* 

4.995 mg/l [96 hours] Effect: Reproduction

**Chronic - NOEC - Fresh water** 

Daphnia - Water flea - Daphnia magna - Neonate

Age: <24 hours 100 μl/l [21 days] Effect: Mortality

**Chronic - NOEC - Fresh water** 

Fish - Eastern mosquitofish - Gambusia holbrooki - Larvae

Age: 3 days

0.375 µl/l [12 weeks] Effect: Morphology

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

2 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 28 to 32 days; <u>Size</u>: 17.5 mm; <u>Weight</u>: 0.087 g

320 mg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Raphidocelis subcapitata

579 mg/l [96 hours] Effect: Biochemistry

Lt. Aliphatic Hydrocarbon Solvent Acute - LC50 - Fresh water

**US EPA** 

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 0.32 g >10 pph [96 hours] Effect: Mortality

Methyl Ethyl Ketone Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Larvae

Age: <24 hours 5091 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 31 days; Size: 22 mm; Weight: 0.167 g

3220 mg/l [96 hours] Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - Skeletonema costatum

>500 mg/l [96 hours] Effect: Population

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 33 days; Size: 20.6 mm; Weight: 0.119 g

1730 mg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: 6 to 24 hours

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2-Propanol

2-Methyl-1-propanol

Xylene, mixed isomers

1983 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon crangon

1400 mg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - Rasbora heteromorpha

Size: 1 to 3 cm 4200 mg/l [96 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 1.67 g 1330 mg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

**Chronic - NOEC - Fresh water** 

Daphnia - Water flea - Daphnia magna

Age: ≤24 hours 4 mg/l [21 days] Effect: Reproduction

Acute - LC50 - Marine water

Crustaceans - Daggerblade grass shrimp - Palaemon pugio

8500 µg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas Age: 31 days; Size: 18.4 mm; Weight: 0.077 g

13.4 mg/l [96 hours] Effect: Mortality

Acute - LC50 - Fresh water Ethylbenzene

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

4200 µg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: ≤24 hours 2.93 mg/l [48 hours] Effect: Intoxication

Acute - EC50 - Fresh water

Algae - Green algae - Raphidocelis subcapitata

3600 µg/l [96 hours] Effect: Population

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

215 mg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Raphidocelis subcapitata

Age: 3 to 7 days 66.48 mg/l [96 hours] Effect: Population

Acute - LC50 - Marine water

glyoxal

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trimethylbenzene

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Crustaceans - Daggerblade grass shrimp - Palaemon pugio

5600 µg/l [48 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon crangon -

Adult

2500 mg/l [48 hours] Effect: Mortality

Acute - EC50 - Marine water Algae - Green algae - *Ulva pertusa* 

16.912 mg/l [96 hours] Effect: Reproduction

**Chronic - NOEC - Marine water** Algae - Green algae - *Ulva pertusa* 

9.96 mg/l [96 hours] Effect: Reproduction

Acute - LC50 - Fresh water

Fish - Zebra danio - Danio rerio - Egg

Age: 12

290 mg/l [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

### Persistence and degradability

Not available.

Methanol

**Conclusion/Summary [Product]** : Not available.

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**

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**

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Soil/Water partition coefficient

: 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	11	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No. 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).  ERG No. 128	- ERG No. 128	_	Emergency schedules F-E, S-E

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# **Section 14. Transport information**

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	UV-328	Listed
Annex A - Elimination - Use	UV-328	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.

### 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.

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### Section 16. Other information

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
SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2	On basis of test data Calculation method

### **History**

Date of printing : 4/16/2025 Date of issue/Date of : 4/16/2025

revision

Date of previous issue : 3/3/2025

Version : 24

**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 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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