

SAFETY DATA SHEET

According to 29 CFR 1910.1200
W19714

Section 1. Identification

Product name : N/C White Opaque Base Satin (VOC)

Product code : W19714

Other means of identification : Not available.

Product type : Liquid.

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

Paint or paint related material.

Manufacturer : M. L. CAMPBELL
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : (800) 424-9300

Product Information Telephone Number : (800) 364-1359

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 18.8% (dermal), 16.2% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

- Hazard statements** : Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
- 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 only outdoors or in a well-ventilated area. Do not breathe 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 SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : 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.
- Hazards identified when used** : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**

Section 3. Composition/information on ingredients

Ingredient name	% by weight	Identifiers
n-Butyl Acetate	≥10 - ≤25	123-86-4
Methyl Ethyl Ketone	≥10 - ≤25	78-93-3
Cellulose Nitrate	≥10 - ≤25	9004-70-0
Titanium Dioxide	≥10 - ≤25	13463-67-7
Xylene, mixed isomers	≤10	1330-20-7
2-Propanol	≤10	67-63-0
Ethanol	≤5	64-17-5
1-Methoxy-2-propanol	≤3	107-98-2
Dibutyl Phthalate	≤3	84-74-2
Toluene	≤3	108-88-3
Ethylbenzene	≤3	100-41-4
Epoxy Polymer	≤0.3	1675-54-3
Methanol	≤0.3	67-56-1
Mineral Spirits 140-Flash	≤0.3	64742-88-7
Methyl Isobutyl Ketone	≤0.3	108-10-1

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

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

- Eye contact** : Causes serious eye irritation.
- 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. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
 - pain or irritation
 - watering
 - redness
- 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:
 - irritation
 - redness
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 - nausea or vomiting
 - 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, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

Section 5. Fire-fighting measures

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: 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, 1/2025) [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/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 950 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 710 mg/m ³ .
Methyl Ethyl Ketone	78-93-3	ACGIH TLV (United States, 1/2025) 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/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 885 mg/m ³ . OSHA PEL (United States, 5/2018)

Section 8. Exposure controls/personal protection

<p>Cellulose Nitrate Titanium Dioxide</p>	<p>9004-70-0 13463-67-7</p>	<p>TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m³. None. ACGIH TLV (United States, 1/2025) A3. TWA 8 hours: 2.5 mg/m³. Form: respirable fraction, finescale particles. NIOSH REL (United States, 10/2020) NIA. OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³. Form: Total dust.</p>
<p>Xylene, mixed isomers</p>	<p>1330-20-7</p>	<p>ACGIH TLV (United States, 1/2025) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL (United States, 5/2018) [Xylenes] TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³.</p>
<p>2-Propanol</p>	<p>67-63-0</p>	<p>ACGIH TLV (United States, 1/2025) 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.</p>
<p>Ethanol</p>	<p>64-17-5</p>	<p>ACGIH TLV (United States, 1/2025) 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.</p>
<p>1-Methoxy-2-propanol</p>	<p>107-98-2</p>	<p>ACGIH TLV (United States, 1/2025) A4. TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 360 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 540 mg/m³.</p>
<p>Dibutyl Phthalate</p>	<p>84-74-2</p>	<p>ACGIH TLV (United States, 1/2025) TWA 8 hours: 5 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 5 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 5 mg/m³.</p>
<p>Toluene</p>	<p>108-88-3</p>	<p>ACGIH TLV (United States, 1/2025) A4. Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 2/2013) TWA 8 hours: 200 ppm.</p>

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Ethylbenzene	100-41-4	<p>CEIL: 300 ppm. AMP 10 minutes: 500 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m³. ACGIH TLV (United States, 1/2025) 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.</p>
Epoxy Polymer Methanol	1675-54-3 67-56-1	<p>None. ACGIH TLV (United States, 1/2025) 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.</p>
Mineral Spirits 140-Flash	64742-88-7	<p>OSHA PEL (United States, 5/2018) [Naphtha (Coal tar)] TWA 8 hours: 100 ppm. TWA 8 hours: 400 mg/m³.</p>
Methyl Isobutyl Ketone	108-10-1	<p>ACGIH TLV (United States, 1/2025) A3. TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 50 ppm. TWA 10 hours: 205 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 300 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 410 mg/m³.</p>

[Occupational exposure limits \(Canada\)](#)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
n-butyl acetate	123-86-4	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 200 ppm. TWA 8 hours: 150 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) [butyl acetate, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) [butyl acetates] STEV 15 minutes: 150 ppm. TWAEV 8 hours: 50 ppm.</p> <p>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.</p>
Methyl ethyl ketone	78-93-3	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 300 ppm. TWA 8 hours: 200 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) Repr. Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm.</p> <p>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.</p> <p>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.</p>
Xylene	1330-20-7	<p>CA Saskatchewan Provincial (Canada, 4/2021) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) [xylene, all isomers] TWA 8 hours: 20 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Xylene (o-, m-, p-isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) [Xylene]</p>

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Isopropyl alcohol	67-63-0	<p>TWAEV 8 hours: 100 ppm. TWAEV 8 hours: 434 mg/m³. STEV 15 minutes: 150 ppm. STEV 15 minutes: 651 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) [Dimethylbenzene] OEL 8 hours: 100 ppm. OEL 15 minutes: 651 mg/m³. OEL 15 minutes: 150 ppm. OEL 8 hours: 434 mg/m³.</p> <p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 200 ppm. STEV 15 minutes: 400 ppm.</p> <p>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.</p>
Ethyl alcohol	64-17-5	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 1250 ppm. TWA 8 hours: 1000 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) STEL 15 minutes: 1000 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) STEL 15 minutes: 1000 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) C3. STEV 15 minutes: 1000 ppm.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 1000 ppm. OEL 8 hours: 1880 mg/m³.</p>
Propylene glycol monomethyl ether	107-98-2	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) STEL 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm.</p>

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n-Dibutyl phthalate	84-74-2	<p>STEV 15 minutes: 100 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 100 ppm. OEL 15 minutes: 553 mg/m³. OEL 8 hours: 369 mg/m³. OEL 15 minutes: 150 ppm. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 10 mg/m³. TWA 8 hours: 5 mg/m³. CA British Columbia Provincial (Canada, 6/2025) Repr. TWA 8 hours: 5 mg/m³. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 5 mg/m³. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 5 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 5 mg/m³.</p>
toluene	108-88-3	<p>CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin. STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 6/2025) Repr. TWA 8 hours: 20 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. CA Quebec Provincial (Canada, 2/2024) Ototoxicant. TWAEV 8 hours: 20 ppm. CA Alberta Provincial (Canada, 3/2023) Absorbed through skin. OEL 8 hours: 50 ppm. OEL 8 hours: 188 mg/m³.</p>
Ethylbenzene	100-41-4	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. CA British Columbia Provincial (Canada, 6/2025) 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.</p>
Methyl alcohol	67-56-1	<p>CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin. STEL 15 minutes: 250 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada,</p>

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Methyl isobutyl ketone	108-10-1	<p>6/2025) Absorbed through skin. TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) Absorbed through skin. TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) Absorbed through skin. TWAEV 8 hours: 200 ppm. TWAEV 8 hours: 262 mg/m³. STEV 15 minutes: 250 ppm. STEV 15 minutes: 328 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) Absorbed through skin. OEL 8 hours: 262 mg/m³. OEL 8 hours: 200 ppm. OEL 15 minutes: 250 ppm. OEL 15 minutes: 328 mg/m³.</p> <p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 75 ppm. TWA 8 hours: 50 ppm.</p> <p>CA British Columbia Provincial (Canada, 6/2025) Carc 2B. TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) C3. TWAEV 8 hours: 20 ppm. STEV 15 minutes: 75 ppm.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 205 mg/m³. OEL 8 hours: 50 ppm. OEL 15 minutes: 75 ppm. OEL 15 minutes: 307 mg/m³.</p>
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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 Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm.
Xylene, mixed isomers	1330-20-7	NOM-010-STPS-2014 (Mexico, 4/2016) [Xileno, mezcla] A4. STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
2-Propanol	67-63-0	NOM-010-STPS-2014 (Mexico, 4/2016) A4. TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm.
Ethanol	64-17-5	NOM-010-STPS-2014 (Mexico, 4/2016) A3.

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1-Methoxy-2-propanol	107-98-2	STEL 15 minutes: 1000 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
Dibutyl Phthalate	84-74-2	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 5 mg/m ³ .
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016) A4. TWA 8 hours: 20 ppm.
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016) A3. TWA 8 hours: 20 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.
Methyl Isobutyl Ketone	108-10-1	NOM-010-STPS-2014 (Mexico, 4/2016) A3. TWA 8 hours: 50 ppm. STEL 15 minutes: 75 ppm.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	ACGIH BEI (United States, 1/2025) BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
Xylene, mixed isomers	ACGIH BEI (United States, 1/2025) [xylenes (technical or commercial grades)] BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
2-Propanol	ACGIH BEI (United States, 1/2025) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
Toluene	ACGIH BEI (United States, 1/2025) BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
Ethylbenzene	ACGIH BEI (United States, 1/2025) BEI: 150 mg/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Methanol	ACGIH BEI (United States, 1/2025) BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.
Methyl Isobutyl Ketone	ACGIH BEI (United States, 1/2025) BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Section 8. Exposure controls/personal protection

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	<p>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.</p>
Xylene, mixed isomers	<p>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [xilenos (grado técnico o comercial)] BEI: 1.5 g/g creatinine, methyl hippuric acids [in urine]. Sampling time: at the end of the work shift.</p>
2-Propanol	<p>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 the end of the work week.</p>
Toluene	<p>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified. BEI: 1.6 g/g creatinine [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.], hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 0.5 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], o-cresol [in urine]. Sampling time: at the end of the work shift.</p>

Section 8. Exposure controls/personal protection

Ethylbenzene

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

BEI: 0.7 g/g creatinine [non-specific. The determinant is nonspecific, since it can be found after exposure to other chemicals.; semi-quantitative. The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], Sum of mandelic acid and acid phenylglyoxylic [in urine]. Sampling time: at the end of the shift at the end of the work week.

BEI: semi-quantitative. The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible., ethylbenzene [in exhaled air]. Sampling time: uncritical.

Methanol

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 value; 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.

Methyl Isobutyl 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, MIBK [in urine]. Sampling time: at the end of the work shift.

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : 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 anti-static 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** : White.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.

Section 9. Physical and chemical properties

Boiling point or initial boiling point and boiling range : 77°C (170.6°F)
Flash point : Closed cup: 6°C (42.8°F) [Pensky-Martens Closed Cup]
Evaporation rate : 5.6 (butyl acetate = 1)
Flammability : Flammable liquid.
Lower and upper explosion limit/flammability limit : Lower: 1%
Upper: 19%
Vapor pressure : 12.1 kPa (90.6 mm Hg)
Relative vapor density : 1.5 [Air = 1]
Relative density : 1.04
Density : 1.04 g/cm³
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 mm²/s (<20.5 cSt)
Molecular weight : Not applicable.
Particle characteristics
Median particle size : Not applicable.
Heat of combustion : 18.681 kJ/g

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

n-Butyl Acetate

Rat - Oral - LD50

10768 mg/kg

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

Rabbit - Dermal - LD50

>17600 mg/kg

Methyl Ethyl Ketone

Rabbit - Dermal - LD50

6480 mg/kg

Rat - Oral - LD50

2737 mg/kg

Cellulose Nitrate

Rat - Oral - LD50

>5 g/kg

Xylene, mixed isomers

Rat - Oral - LD50

4300 mg/kg

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

Rat - Inhalation - LC50 Gas.

6700 ppm [4 hours]

Toxic effects: Behavioral - Somnolence (general depressed activity)

2-Propanol

Rabbit - Dermal - LD50

12800 mg/kg

Rat - Oral - LD50

5000 mg/kg

Toxic effects: Behavioral - General anesthetic

Ethanol

Rat - Oral - LD50

7 g/kg

Rat - Inhalation - LC50 Vapor

124700 mg/m³ [4 hours]

1-Methoxy-2-propanol

Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or Respiration - Dyspnea

Dibutyl Phthalate

Rat - Oral - LD50

5010 mg/kg

Toluene

Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapor

49 g/m³ [4 hours]

Ethylbenzene

Rat - Oral - LD50

3500 mg/kg

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

Rabbit - Dermal - LD50

>5000 mg/kg

Epoxy Polymer

Rabbit - Dermal - LD50

20 g/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite

Section 11. Toxicological information

Changes - Weight loss or decreased weight gain

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] Rat - Oral - LD50 2080 mg/kg
Methyl Isobutyl Ketone	

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Result

n-Butyl Acetate	Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
Methyl Ethyl Ketone	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
Titanium Dioxide	Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 72 hours <u>Amount/concentration applied:</u> 300 ug l
Xylene, mixed isomers	Rat - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 8 hours <u>Amount/concentration applied:</u> 60 uL Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 100 %
2-Propanol	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
Ethanol	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 400 mg Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg
1-Methoxy-2-propanol	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
Toluene	Pig - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 250 uL Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 435 mg Rabbit - Skin - Moderate irritant

Section 11. Toxicological information

Ethylbenzene	<u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Mild irritant
Epoxy Polymer	<u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 15 mg Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Moderate irritant
Methanol	<u>Duration of treatment/exposure:</u> 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> 500 mg
Methyl Isobutyl Ketone	<u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result

n-Butyl Acetate	Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Mild irritant <u>Amount/concentration applied:</u> 87 mg Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 5 mg Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 10 mg Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 0.066666667 minutes <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 100 uL Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 1 hours <u>Amount/concentration applied:</u> 50 pph Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 0.5 minutes <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Mild irritant <u>Amount/concentration applied:</u> 870 ug
Xylene, mixed isomers	
2-Propanol	
Ethanol	
1-Methoxy-2-propanol	
Toluene	

Section 11. Toxicological information

Ethylbenzene	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg
Epoxy Polymer	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 0.1 MI Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 500 mg
Methanol	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
Methyl Isobutyl Ketone	Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 40 mg Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 0.1 MI Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 uL Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 40 mg

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

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Xylene, mixed isomers	-	3	-
2-Propanol	-	3	-
Ethanol	-	1	-
Toluene	-	3	-
Ethylbenzene	-	2B	-
Epoxy Polymer	-	3	-
Methyl Isobutyl Ketone	-	2B	-

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

Result

n-Butyl Acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Methyl Ethyl Ketone	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
2-Propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Ethanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
1-Methoxy-2-propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Toluene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Ethylbenzene	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
Mineral Spirits 140-Flash	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Methyl Isobutyl Ketone	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name

Result

Section 11. Toxicological information

Xylene, mixed isomers	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Mineral Spirits 140-Flash	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Aspiration hazard

Product/ingredient name

Result

Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Mineral Spirits 140-Flash	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- 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. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
 - pain or irritation
 - 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:
 - irritation
 - redness
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 - nausea or vomiting
 - reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations

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

Section 11. Toxicological information

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage 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)
N/C White Opaque Base Satin (VOC)	11649.2	21837.3	N/A	463.8	N/A
n-Butyl Acetate	10768	N/A	N/A	N/A	N/A
Methyl Ethyl Ketone	2737	6480	N/A	N/A	N/A
Xylene, mixed isomers	4300	2500	N/A	N/A	N/A
2-Propanol	5000	12800	N/A	N/A	N/A
Ethanol	7000	N/A	N/A	124.7	N/A
1-Methoxy-2-propanol	6600	13000	N/A	N/A	N/A
Dibutyl Phthalate	5010	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	49	N/A
Ethylbenzene	3500	N/A	N/A	11	N/A
Epoxy Polymer	N/A	20000	N/A	N/A	N/A
Methanol	100	300	64000	3	N/A
Methyl Isobutyl Ketone	2080	N/A	N/A	11	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result
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Section 12. Ecological information

n-Butyl Acetate	<p>Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 31 to 32 days; <u>Size</u>: 21.6 mm; <u>Weight</u>: 0.175 g 18 mg/l [96 hours] <u>Effect</u>: Mortality</p> <p>Acute - LC50 - Marine water Crustaceans - Brine shrimp - <i>Artemia salina</i> 32 mg/l [48 hours] <u>Effect</u>: Mortality</p>
Methyl Ethyl Ketone	<p>Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> - Larvae <u>Age</u>: <24 hours 5091 mg/l [48 hours] <u>Effect</u>: Intoxication</p> <p>Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 31 days; <u>Size</u>: 22 mm; <u>Weight</u>: 0.167 g 3220 mg/l [96 hours] <u>Effect</u>: Mortality</p> <p>Acute - EC50 - Marine water Algae - Diatom - <i>Skeletonema costatum</i> >500 mg/l [96 hours] <u>Effect</u>: Population</p>
Cellulose Nitrate	<p>Acute - EC50 - Fresh water Algae - Green algae - <i>Raphidocelis subcapitata</i> 579 mg/l [96 hours] <u>Effect</u>: Biochemistry</p>
Titanium Dioxide	<p>Acute - LC50 - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000 mg/l [96 hours] <u>Effect</u>: Mortality</p>
Xylene, mixed isomers	<p>Acute - LC50 - Marine water Crustaceans - Daggerblade grass shrimp - <i>Palaemon pugio</i> 8500 µg/l [48 hours] <u>Effect</u>: Mortality</p> <p>Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 31 days; <u>Size</u>: 18.4 mm; <u>Weight</u>: 0.077 g 13.4 mg/l [96 hours] <u>Effect</u>: Mortality</p>
2-Propanol	<p>Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> 1400 mg/l [48 hours] <u>Effect</u>: Mortality</p> <p>Acute - LC50 - Fresh water Fish - Harlequinfish, red rasbora - <i>Rasbora heteromorpha</i> <u>Size</u>: 1 to 3 cm 4200 mg/l [96 hours] <u>Effect</u>: Mortality</p>
Ethanol	<p>Acute - LC50 - Fresh water Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> 42 mg/l [4 days] <u>Effect</u>: Mortality</p> <p>Acute - EC50 - Marine water Algae - Green algae - <i>Ulva pertusa</i> 17.921 mg/l [96 hours] <u>Effect</u>: Reproduction</p>

Section 12. Ecological information

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 - Marine water

US EPA

Crustaceans - Opossum shrimp - *Americamysis bahia*

0.87 mg/l [48 hours]

Effect: Mortality

Chronic - NOEC - Fresh water

OECD

Daphnia - Water flea - *Daphnia magna*

0.07 mg/l [21 days]

Effect: Reproduction

Chronic - NOEC

OECD

Algae - Green algae - *Scenedesmus sp.* - Exponential growth phase

100 µg/l [96 hours]

Effect: Biochemistry

Acute - EC50 - Marine water

Algae - Dinoflagellate - *Karenia brevis* - Exponential growth phase

0.0034 ppm [96 hours]

Effect: Growth

Acute - LC50 - Fresh water

US EPA

Fish - Bluegill - *Lepomis macrochirus* - Juvenile (Fledgling, Hatchling, Weanling)

0.48 mg/l [96 hours]

Effect: Mortality

Chronic - NOEC - Fresh water

US EPA

Fish - Medaka, high-eyes - *Oryzias latipes* - Adult

Age: 18 weeks; Weight: 0.235 to 0.383 g

15.6 µg/l [218 days]

Effect: Reproduction

Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

5500 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling,

Dibutyl Phthalate

Toluene

Section 12. Ecological information

Hatchling, Weanling)

6000 µg/l [48 hours]

Effect: Intoxication

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

1 mg/l [21 days]

Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

12.5 mg/l [72 hours]

Effect: Growth

Acute - LC50 - Fresh water

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 - 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

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 29 days; Size: 21 mm; Weight: 0.141 g

505 mg/l [96 hours]

Effect: Mortality

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

78 mg/l [21 days]

Effect: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo

Age: <24 hours

168 mg/l [33 days]

Effect: Mortality

Ethylbenzene

Methanol

Methyl Isobutyl Ketone

Section 12. Ecological information

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
Xylene, mixed isomers	-	-	Readily
2-Propanol	-	-	Readily
Ethanol	-	-	Readily
Toluene	-	-	Readily
Ethylbenzene	-	-	Readily
Methyl Isobutyl Ketone	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Dibutyl Phthalate	-	165.96	Low
Toluene	-	90	Low
Methanol	-	<10	Low

Mobility in soil

Soil/Water partition coefficient : Not available.






Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

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 to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations :
[SARA 313](#)

Section 15. Regulatory information

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production. Reporting of chemicals in this section does not necessarily indicate their presence in the final formulated product.

Ingredient name	% by weight	CAS number
Mercury (as Hg)	0.0000002	
Xylene, mixed isomers	9	1330-20-7
Toluene	2	108-88-3
Ethylbenzene	2	100-41-4
Methyl Isobutyl Ketone	0.1	108-10-1
Dibutyl Phthalate	3	84-74-2
Lead (as Pb)	0.00002	

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not 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.)

Health	*	3
Flammability		3
Physical hazards		0

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

Date of issue/Date of revision	: 5/2/2026	Date of previous issue	: 10/11/2025	Version	: 30	30/32
W19714	N/C White Opaque Base Satin (VOC)				SHW-85-NA-GHS-US	

Section 16. Other information

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

History

- Date of printing** : 5/2/2026
- Date of issue/Date of revision** : 5/2/2026
- Date of previous issue** : 10/11/2025
- Version** : 30
- 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.

