

SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2023.

Date of issue/Date of revision 13 February 2025

Version 2

Section 1. Identification

Product name : SIGMAFAST 278 BUFF RESIN

Product code : 00472154

Other means of identification : Not available.

Product type : Liquid.

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

Product use : Professional applications, Used by spraying.

Use of the substance/
mixture : Coating.

Uses advised against : Not applicable.

Supplier : PPG Architectural Coatings Canada, Inc.
1550, rue Ampère, bureau 500
Boucherville (Québec) J4B 7L4
Canada
+1 450-655-3121

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
SETIQ Interior de la República: 800-00-214-00 (México)
SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number : 888-977-4762

Section 2. Hazard identification

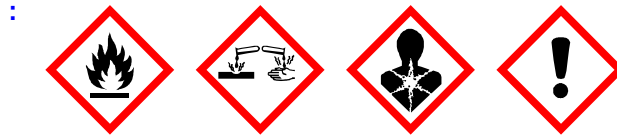
Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1A
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Health Hazards Not Otherwise Classified - Category 1

Section 2. Hazard identification

This product contains TiO₂ which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO₂ is utilized as a raw material in a liquid coating formulation. In this case, the TiO₂ particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO₂ when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

:

- ☑ Flammable liquid and vapor.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- May cause cancer.
- May damage fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure. (hearing organs)
- Causes digestive tract burns.
- Prolonged or repeated contact may dry skin and cause irritation.

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. Do not breathe vapor. Do not eat, drink or smoke when using this product. 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. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: Store locked up.

Disposal

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

Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.5% (oral), 57.2% (dermal), 60.2% (inhalation)

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMAFAST 278 BUFF RESIN
Other means of identification	: Not available.

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica-Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	10 - 30*	14808-60-7
bis-[4-(2,3-epoxypropoxy)phenyl]propane	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy)phenyl]propane; 2,2-bis[4-(2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy)phenyl)-; diglycidyl ether of bisphenol-A; 2,2'-{Propane-2,2-diy[bis[(4,1-phenylene)oxymethylene]]bis(oxirane)}; 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether; Araldite	10 - 30*	1675-54-3
Limestone	Calcium carbonate; Marble; calcite; MARBLE DUST; VALERITE; GROUND Limestone; Limestone FLOUR; Limestone, GROUND; Agstone; CALCIUM CARBONATE (MARBLE)	10 - 30*	1317-65-3
Talc, not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	5 - 10*	14807-96-6
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture)	5 - 10*	1330-20-7
4-nonylphenol, branched	Phenol, 4-nonyl-, branched; Branched 4-nonylphenol (mixed isomers); Nonylphenol, 4-branched; N-NONYLPHENOL; Nonylphenol; C9-Branched alkyl phenol; Branched p-nonylphenol; 4-Nonylphenol; Monoalkyl (C3-9)phenol; C9 branched alkyl phenol; Branched 4-nonylphenol	3 - 7*	84852-15-3
titanium dioxide	Titanium oxide; Titanium oxide (TiO ₂); CI	3 - 7*	13463-67-7

Section 3. Composition/information on ingredients

	77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 µm or more but not more than 10 µm, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00		
iron hydroxide oxide yellow	C.I. Pigment Yellow 42; CI 77492; iron hydroxide oxide yellow; E 172; iron oxide yellow; C.I. 77492; iron hydroxide oxide yellow; C.I. 77492; E 172; iron oxide yellow; Iron oxide; Iron Oxide Yellow; Transparent iron oxide yellow; C.I. pigment yellow 042; FERRIC OXIDE, FERRIC HYDROXIDE, CALCIUM CARBONATE; C.I. PIGMENT YELLOW 42, (IRON OXIDE (YELLOW)); SYNTHETIC YELLOW IRON OXIDE	1 - 5*	51274-00-1
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy-2-hydroxypropane; 2-Methoxy-1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan-2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy-1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	1 - 5*	107-98-2
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyl,oxycarbonyl orchloropropyl,oxycarbonyl) benzene	0.5 - 1.5*	100-41-4
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Oxirane, 2-[(C12-14-alkyloxy)methyl] derivs.; Alkyl (C12-C14) Glycidyl Ether; Oxirane, mono[(C12-14-alkyloxy)methyl]	0.1 - 1*	68609-97-2

Section 3. Composition/information on ingredients

Phenol, 2-nonyl-, branched	derivatives; (C12-14) Alkylglycidyl ether; Oxirane, mono((C12-14-alkyloxy)methyl) derivatives; Alkyl -C12-14-glycidyl ether; 2-[(Alkyloxy)methyl]oxirane; Oxirane 2-[(alkyl(C12-14)oxy)methyl] derivatives; oxirane, mono[(C12-14-alkyloxy)methyl] derivs; Alkyl(C8-18) glycidyl ether; Oxirane, mono [(alkyl(C=12-14)oxy)methyl] derivs.	0.1 - 1*	91672-41-2
maleic anhydride	2-nonylphenol, branched; 2-(Branched nonyl)phenol; Monoalkyl(C3-9)phenol; Branched 2-nonylphenol	<0.1*	108-31-6

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Corrosive to the digestive tract. Causes burns.

Section 4. First-aid measures

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
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** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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.
- Specific hazards arising from the chemical** : 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides

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

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** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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

Section 7. Handling and storage

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.

Special precautions : Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene : Wash hands thoroughly after handling.

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 between the following temperatures: 0 to 35°C (32 to 95°F). 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> crystalline silica, respirable powder (<10 microns)	<p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 0.025 mg/m³. Form: Respirable particulate.</p> <p>CA British Columbia Provincial (Canada, 4/2024) [silica, crystalline - alpha quartz and cristobalite] TWA 8 hours: 0.025 mg/m³. Form: Respirable.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Silica, Crystalline (Quartz/Tripoli)] TWA 8 hours: 0.1 mg/m³. Form: Respirable particulate matter..</p> <p>CA Quebec Provincial (Canada, 2/2024) [Silica Crystalline -Quartz] TWA_{EV} 8 hours: 0.1 mg/m³. Form: respirable aerosol fraction.</p> <p>CA Saskatchewan Provincial (Canada, 4/2021) TWA 8 hours: 0.05 mg/m³. Form: respirable fraction.</p>

Section 8. Exposure controls/personal protection

bis-[4-(2,3-epoxipropoxy)phenyl]propane
Limestone

None.

**CA Alberta Provincial (Canada, 3/2023)
[Calcium carbonate]**

OEL 8 hours: 10 mg/m³.

**CA British Columbia Provincial (Canada,
4/2024)**

TWA 8 hours: 10 mg/m³. Form: Total dust.

STEL 15 minutes: 20 mg/m³.

TWA 8 hours: 3 mg/m³. Form: respirable fraction.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 10 mg/m³. Form: total particulate matter.

**CA Saskatchewan Provincial (Canada,
4/2021) [Limestone]**

STEL 15 minutes: 20 mg/m³.

TWA 8 hours: 10 mg/m³.

**CA Saskatchewan Provincial (Canada,
4/2021) [Calcium carbonate]**

STEL 15 minutes: 20 mg/m³.

TWA 8 hours: 10 mg/m³.

Talc , not containing asbestiform fibres

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 2 mg/m³. Form: Respirable particulate.

**CA British Columbia Provincial (Canada,
4/2024)**

TWA 8 hours: 2 mg/m³. Form: Respirable.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 2 mg/m³. Form: respirable aerosol fraction.

**CA Saskatchewan Provincial (Canada,
4/2021)**

TWA 8 hours: 2 mg/m³. Form: respirable fraction.

xylene

**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.

**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 Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

4-nonylphenol, branched
titanium dioxide

4/2021) [Xylene]

STEL 15 minutes: 150 ppm.
TWA 8 hours: 100 ppm.

None.

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 10 mg/m³.

CA British Columbia Provincial (Canada, 4/2024)

TWA 8 hours: 10 mg/m³. Form: Total dust.

CA Ontario Provincial (Canada, 6/2019)

TWA 8 hours: 10 mg/m³.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 10 mg/m³. Form: total particulate matter.

CA Saskatchewan Provincial (Canada, 4/2021)

STEL 15 minutes: 20 mg/m³.

TWA 8 hours: 10 mg/m³.

CA British Columbia Provincial (Canada, 4/2024) [iron oxide dust]

TWA 8 hours: 5 mg/m³ (as Fe). Form: Dust.

CA British Columbia Provincial (Canada, 4/2024) [iron oxide]

TWA 8 hours: 5 mg/m³ (as Fe). Form:

Fume.

STEL 15 minutes: 10 mg/m³ (as Fe). Form:

Fume.

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 British Columbia Provincial (Canada, 4/2024)

STEL 15 minutes: 100 ppm.

TWA 8 hours: 50 ppm.

CA Ontario Provincial (Canada, 6/2019)

TWA 8 hours: 50 ppm.

STEL 15 minutes: 100 ppm.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 50 ppm.

STEV 15 minutes: 100 ppm.

CA Saskatchewan Provincial (Canada, 4/2021)

STEL 15 minutes: 150 ppm.

TWA 8 hours: 100 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.

CA British Columbia Provincial (Canada, 4/2024)

TWA 8 hours: 20 ppm.

iron hydroxide oxide yellow

1-methoxy-2-propanol

ethylbenzene

Section 8. Exposure controls/personal protection

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Phenol, 2-nonyl-, branched
maleic anhydride

CA Ontario Provincial (Canada, 6/2019)

TWA 8 hours: 20 ppm.

CA Quebec Provincial (Canada, 2/2024)

TWAEV 8 hours: 20 ppm.

CA Saskatchewan Provincial (Canada, 4/2021)

STEL 15 minutes: 125 ppm.

TWA 8 hours: 100 ppm.

None.

None.

CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 0.1 ppm.

OEL 8 hours: 0.4 mg/m³.

CA British Columbia Provincial (Canada, 4/2024) Skin sensitizer , Inhalation

sensitizer.

TWA 8 hours: 0.1 ppm.

CA Ontario Provincial (Canada, 6/2019)

TWA 8 hours: 0.01 mg/m³. Form: Inhalable fraction and vapour..

CA Quebec Provincial (Canada, 2/2024)

Skin sensitizer , Inhalation sensitizer.

TWAEV 8 hours: 0.01 mg/m³. Form:

inhalable fraction and vapour.

CA Saskatchewan Provincial (Canada, 4/2021) Sensitizer.

STEL 15 minutes: 0.3 ppm.

TWA 8 hours: 0.1 ppm.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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 : Chemical splash goggles and face shield.

Section 8. Exposure controls/personal protection

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.

Gloves

: butyl rubber

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

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state

: Liquid.

Color

: Beige.

Odor

: Characteristic.

pH

: Not applicable.

Melting point

: Not available.

Boiling point

: >37.78°C (>100°F)

Flash point

: Closed cup: 40°C (104°F)

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

Flammability

: Not available.

Lower and upper explosive (flammable) limits

: Not available.

Vapor pressure

: Not available.

Vapor density

: Not available.

Relative density

: 1.66

Density (lbs / gal)

: 13.85

Solubility(ies)

Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/water

: Not applicable.

Section 9. Physical and chemical properties

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

% Solid. (w/w) : 89.468

Particle characteristics

Median particle size : Not applicable.

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 : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Dose
<input checked="" type="checkbox"/> Bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Dermal - LD50	23000 mg/kg
	Rat - Oral - LD50	15000 mg/kg
Limestone	Rat - Oral - LD50	6450 mg/kg
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
4-nonylphenol, branched	Rabbit - Dermal - LD50	2.14 g/kg
	Rat - Oral - LD50	1300 mg/kg
titanium dioxide	Rat - Oral - LD50	>5000 mg/kg
	Rabbit - Dermal - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	>6.82 mg/l [4 hours]
iron hydroxide oxide yellow	Rat - Oral - LD50	>10 g/kg
	Rat - Inhalation - LC50 Dusts and mists	>5.05 mg/l [4 hours]
1-methoxy-2-propanol	Rabbit - Dermal - LD50	13 g/kg
	Rat - Oral - LD50	5.2 g/kg
	Rat - Inhalation - LC50 Vapor	>7000 ppm [6 hours]
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
	Rabbit - Dermal - LD50	17.8 g/kg
	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
oxirane, mono[(C12-14-alkyloxy)methyl]	Rat - Oral - LD50	17100 mg/kg

Section 11. Toxicological information

derivs. maleic anhydride	Rabbit - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Oral - LD50	>4000 mg/kg 2620 mg/kg 400 mg/kg
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Product Conclusion : There are no data available on the mixture itself.

Skin corrosion/irritation

Product/ingredient name	Species	Dose	Score
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Skin - Erythema/Eschar	Duration of treatment/exposure: 4 hours	Irritation score: 0.8
	Rabbit - Skin - Edema	Duration of treatment/exposure: 4 hours	Irritation score: 0.5
	Rabbit - Skin - Mild irritant	Duration of treatment/exposure: 4 hours	-
xylene	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours	-
4-nonylphenol, branched	Rabbit - Skin - Erythema/Eschar	-	Irritation score: 4

Conclusion/Summary : There are no data available on the mixture itself.

Serious eye damage/eye irritation

Product/ingredient name	Species	Dose	Score
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Eyes - Redness of the conjunctivae	Duration of treatment/exposure: 24 hours	Irritation score: 0.4
	Rabbit - Eyes - Mild irritant	Duration of treatment/exposure: 24 hours Fully reversible in 7 days or less	-

Conclusion/Summary : There are no data available on the mixture itself.

Respiratory corrosion/irritation

Conclusion/Summary : There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Species	Result
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Mouse - skin	Result: Sensitizing

Skin

Conclusion/Summary : There are no data available on the mixture itself.

Respiratory

Conclusion/Summary : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	3	-
xylene	-	3	-
titanium dioxide	-	2B	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
calc , not containing asbestiform fibres	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
xylene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1-methoxy-2-propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
crystalline silica, respirable powder (<10 microns)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2
maleic anhydride	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory system) (inhalation) - Category 1

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, skin, bone marrow.
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, heart, cardiovascular system, upper respiratory tract, immune system, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Section 11. Toxicological information

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
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

- Conclusion/Summary** : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO₂ which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO₂ is utilized as a raw material in a liquid coating formulation. In this case, the TiO₂ particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO₂ when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

- Potential immediate effects** : There are no data available on the mixture itself.
- Potential delayed effects** : There are no data available on the mixture itself.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

Conclusion/Summary : There are no data available on the mixture itself.

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : May cause 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)
SIGMAFAST 278 BUFF RESIN	10424.6	5992.1	N/A	54.9	7.0
bis-[4-(2,3-epoxipropoxy)phenyl]propane	15000	23000	N/A	N/A	N/A
Limestone	6450	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	2500	N/A	N/A	N/A
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Chronic - NOEC 0.3 mg/l [21 days] Acute - LC50 - Fresh water 1.8 mg/l [48 hours]	Daphnia Daphnia - <i>daphnia magna</i>
Limestone	Acute - LC50 >56000 mg/l [96 hours]	Fish
4-nonylphenol, branched	Acute - LC50 0.221 mg/l [96 hours] Acute - EC50 OECD 0.044 mg/l [48 hours] Effect: Intoxication	Fish Crustaceans - Water flea - <i>Moina macrocopa</i>
titanium dioxide	Acute - EC50 OECD 0.04 mg/l [72 hours] Effect: Population Acute - LC50 - Fresh water >100 mg/l [48 hours]	Algae - Green algae - <i>Raphidocelis subcapitata</i> Daphnia - <i>Daphnia magna</i>

Section 12. Ecological information

iron hydroxide oxide yellow	Acute - LC50 >100000 mg/l [96 hours]	Fish
1-methoxy-2-propanol	Acute - LC50 - Fresh water >4500 mg/l [96 hours]	Fish - Goldfish
ethylbenzene	Acute - LC50 23300 mg/l [48 hours]	Daphnia - Daphnia
	Acute - EC50 - Fresh water 1.8 mg/l [48 hours]	Daphnia
	Chronic - NOEC - Fresh water 1 mg/l	Daphnia - <i>Ceriodaphnia dubia</i>
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 OECD [Fish, Acute Toxicity Test] >1.8 mg/l [96 hours]	Fish
	EC50 OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test] 7.2 mg/l [48 hours]	Daphnia
	EC50 OECD [Alga, Growth Inhibition Test] 844 mg/l [72 hours]	Algae
Phenol, 2-nonyl-, branched	Acute - LC50 0.017 mg/l [96 hours]	Fish - <i>Pleuronectes americanus</i>

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Result
ethylbenzene oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	79% [10 days] - Readily OECD [Ready Biodegradability - Manometric Respirometry Test] 87% [28 days] - Readily

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	160 to 263	Low
maleic anhydride	-2.78	-	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Section 14. Transport information

	TDG	IMDG	IATA
UN number	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	☑ (bis-[4-(2,3-epoxipropoxy)phenyl]propane)	☑ (bis-[4-(2,3-epoxipropoxy)phenyl]propane)	Not applicable.

Additional information

- TDG** : The marine pollutant mark is not required when transported by road or rail.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Proof of classification statement : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).

Section 15. Regulatory information

[National Inventory List](#)

Canada inventory (DSL) : All components are listed or exempted.

Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications.
The customer is responsible for determining the PPE code for this material.

Date of issue/Date of revision 13 February 2025

Organization that prepared the SDS : EHS

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.

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