

ATTN: Ken Rainis, Perinton Conservation Board Chair  
1350 Turk Hill Road, Fairport NY, 14450

March 10, 2026

RE: Summary of Chemical Usage & Handling at Qualitrol Corporation, Fairport NY

Dear Mr. Rainis,

The Qualitrol site in Fairport NY uses, stores, and disposes of a variety of chemicals<sup>[1]</sup> in our building in compliance with all applicable federal, state, and local laws, regulations, and ordinances. When not in use, all chemicals are properly stored in a designated chemical room specifically designed for spill containment that comports with all applicable laws.

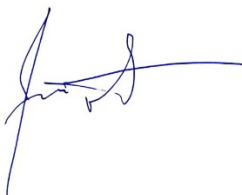
Furthermore, Qualitrol maintains a robust internal Chemical Spill Response Procedure that clearly defines safe, consistent steps for responding to an unlikely chemical spill, which not only complies with all applicable laws, but is designed to protect its employees and contractors, as well as the surrounding community – inclusive of its residents, their property, and the environment.

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<sup>[1]</sup> · The five most commonly used chemicals on site are Gardoclean 2500, Gardacid P 4298, Chemeon TCP – HF, Aerotron 100, and Powdura. Trichloroisocyanuric acid is not used in our processes or building. In addition, IntelliPack SmartFoam B is regularly used for protective packaging purposes. The MSDS associated with these chemicals are attached to this correspondence.

Sincerely,

Jim Niederst, Vice President Operations



# Safety Data Sheet

## Gardoclean 2500

Revision date : 2023/02/17  
Version: 4.0

Page: 1/11  
(30769889/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Gardoclean 2500

#### Recommended use of the chemical and restriction on use

Recommended use\*: Detergents  
Recommended use\*: Detergents; Restricted to professional users.  
Unsuitable for use: Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

#### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: inorganic compounds, organic compounds

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Repr.	1 (unborn child, fertility)	Reproductive toxicity

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17  
Version: 4.0

Page: 2/11  
(30769889/SDS\_GEN\_US/EN)

Aquatic Acute

3

Hazardous to the aquatic environment - acute

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H318 Causes serious eye damage.  
H360 May damage fertility. May damage the unborn child.  
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P201 Obtain special instructions before use.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P202 Do not handle until all safety precautions have been read and understood.  
P273 Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or physician.  
P308 + P313 IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

sodium carbonate

CAS Number: 497-19-8

Content (W/W): >= 25.0 - < 50.0%

Synonym: Carbonic acid, disodium salt

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 3/11

(30769889/SDS\_GEN\_US/EN)

Disodium tetraborate pentahydrate  
CAS Number: 12179-04-3  
Content (W/W):  $\geq 20.0$  -  $< 25.0\%$   
Synonym: No data available.

Tetrasodium-pyrophosphate  
CAS Number: 7722-88-5  
Content (W/W):  $\geq 10.0$  -  $< 15.0\%$   
Synonym: No data available.

Alcohols, C10-16, ethoxylated propoxylated  
CAS Number: 69227-22-1  
Content (W/W):  $\geq 3.0$  -  $< 5.0\%$   
Synonym: No data available.

Butyl diglycol  
CAS Number: 112-34-5  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: Butylcarbitol

Nonylphenol Ethoxylate, Branched  
CAS Number: 68412-54-4  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: H402-412; No-Longer Polymers (NLP)

Nonylphenol polyethylene glycol ether  
CAS Number: 127087-87-0  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: No data available.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

#### If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

#### If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

#### If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 4/11

(30769889/SDS\_GEN\_US/EN)

### If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: Butyl diglycol*

*Symptoms: Overexposure may cause: cyanosis, acidosis, hypotension (low blood pressure), irregular breathing*

*Information on: sodium carbonate*

*Symptoms: Overexposure may cause: vomiting, circulatory collapse, death, diarrhea*

*Information on: Tetrasodium-pyrophosphate*

*Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

Hazards: Dusts may cause mechanical irritation to eyes.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: No known specific antidote.

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, phosphorus oxides, sulfur oxides

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Appropriate breathing apparatus may be required.

### Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 5/11

(30769889/SDS\_GEN\_US/EN)

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extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Do not inhale dusts. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

#### Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

#### Methods and material for containment and cleaning up

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

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### 7. Handling and Storage

#### Precautions for safe handling

Avoid dust formation. Protect against moisture. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

#### Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Protect against moisture. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage temperature: < 40 °C

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### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 6/11

(30769889/SDS\_GEN\_US/EN)

### Personal protective equipment

#### **Respiratory protection:**

Respiratory protection required if exposure limit (if available) may be exceeded

#### **Hand protection:**

Chemical resistant protective gloves (EN ISO 374-1), chloroprene rubber (CR) - 0.5 mm coating thickness, nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber (butyl) - 0.7 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

#### **Eye protection:**

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### **Body protection:**

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

#### **General safety and hygiene measures:**

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	powder
Odour:	No data available.
Odour threshold:	No applicable information available.
Colour:	off-white
pH value:	9.0 - 10.0 ( 40 g/l, 20 °C)
Melting point:	not determined
Freezing point:	not determined
Boiling range:	not determined
onset of boiling:	Study technically not feasible.
Sublimation point:	No applicable information available.
Flash point:	not applicable, the product is a solid
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Autoignition:	not applicable, the product is a solid
Vapour pressure:	( 20 °C) The product is a non-volatile solid.
Relative density:	No applicable information available.
Bulk density:	62.84 kg/m <sup>3</sup>
Vapour density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 7/11

(30769889/SDS\_GEN\_US/EN)

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	( 20 °C) not applicable
Solubility in water:	90 g/l ( 71 °C)
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:  
not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Dust can form an explosive mixture with air.

### Conditions to avoid

Avoid dust formation. Avoid direct sunlight. Avoid humidity.

### Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

### Hazardous decomposition products

Decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 8/11

(30769889/SDS\_GEN\_US/EN)

### Acute toxicity

Assessment of acute toxicity: Based on available data, the classification criteria are not met.

### Oral

Type of value: ATE

Value: 3,447 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

### Inhalation

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

### Dermal

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

### Assessment other acute effects

Assessment of STOT single:

Based on available data, the classification criteria are not met.

### Irritation / corrosion

Assessment of irritating effects: May cause severe damage to the eyes.

#### *Information on: Butyl diglycol*

*Assessment of irritating effects: Eye contact causes irritation. May cause slight irritation to the skin.*

#### *Information on: sodium carbonate*

*Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.*

#### *Information on: Disodium tetraborate pentahydrate*

*Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.*

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### Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

### Aspiration Hazard

No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17  
Version: 4.0

Page: 9/11  
(30769889/SDS\_GEN\_US/EN)

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### Reproductive toxicity

Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.

*Information on: Disodium tetraborate pentahydrate*

*Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Teratogenicity

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

*Information on: Disodium tetraborate pentahydrate*

*Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O)

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

Bioaccumulation potential

No data available.

### **Mobility in soil**

Assessment transport between environmental compartments

No data available.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 10/11

(30769889/SDS\_GEN\_US/EN)

### Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

<u>CAS Number</u>	Chemical name
68412-54-4	Nonylphenol Ethoxylate, Branched
127087-87-0	Nonylphenol polyethylene glycol ether
112-34-5	Butyl diglycol

### State regulations

#### State RTK

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	7722-88-5	Tetrasodium-pyrophosphate
PA	112-34-5	Butyl diglycol
	7757-82-6	Sodium sulphate
	7722-88-5	Tetrasodium-pyrophosphate
	1330-43-4	Boron sodium oxide (B4Na2O7)

### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### NFPA Hazard codes:

Health: 3 Fire: 0 Reactivity: 1 Special:

#### HMIS III rating

# Safety Data Sheet

## Gardoclean 2500

Revision date: 2023/02/17

Version: 4.0

Page: 11/11

(30769889/SDS\_GEN\_US/EN)

Health: 3 $\alpha$     Flammability: 0    Physical hazard: 1

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2023/02/17

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. Restricted to professional users.

END OF DATA SHEET

# Safety Data Sheet

## Gardacid P 4298

Revision date : 2024/02/16  
Version: 3.0

Page: 1/10  
(30768006/SDS\_GEN\_US/EN)

### 1. Identification

**Product identifier used on the label**

**Gardacid P 4298**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Detergents

Unsuitable for use: Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Chemical family: inorganic, aqueous solution

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

Acute Tox.	3 (oral)	Acute toxicity
Acute Tox.	2 (dermal)	Acute toxicity
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Met. Corr.	1	Corrosive to metals

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 2/10  
(30768006/SDS\_GEN\_US/EN)

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H314 Causes severe skin burns and eye damage.  
H310 Fatal in contact with skin.  
H332 Harmful if inhaled.  
H301 Toxic if swallowed.  
H290 May be corrosive to metals.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dust or mist.  
P270 Do not eat, drink or smoke when using this product.  
P262 Do not get in eyes, on skin, or on clothing.  
P234 Keep only in original packaging.  
P264 Wash contaminated body parts thoroughly after handling.  
P261 Avoid breathing mist or vapour or spray.  
P261 Avoid breathing dust or fume.

Precautionary Statements (Response):

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTER or physician.  
P361 Take off immediately all contaminated clothing.  
P330 Rinse mouth.  
P322 Specific measures (see on this label).  
P321 Specific treatment (see on this label).  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

Precautionary Statements (Storage):

P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 3/10  
(30768006/SDS\_GEN\_US/EN)

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Hydrofluoric acid

CAS Number: 7664-39-3  
Content (W/W):  $\geq 3.0$  -  $< 5.0\%$   
Synonym: No data available.

#### Sulphuric acid

CAS Number: 7664-93-9  
Content (W/W):  $\geq 10.0$  -  $< 15.0\%$   
Synonym: No data available.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Immediately remove contaminated clothing. Remove affected person from danger area. Keep warm, calm and covered up. First aid personnel should pay attention to their own safety. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident. Show container, label and/or safety data sheet to physician.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

#### If on skin:

Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Flush with copious amounts of water for at least 15 minutes. Apply calcium gluconate gel. Immediate medical attention required.

#### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required. Remove contact lenses, if present.

#### If swallowed:

Immediately rinse mouth and then drink milk or a magnesium hydroxide/calcium carbonate suspension, do not induce vomiting, seek medical attention. Do not induce vomiting. Summon medical aid without delay.

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

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 4/10  
(30768006/SDS\_GEN\_US/EN)

*Information on: Hydrofluoric acid*

*Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: Sulphuric acid*

*Symptoms: Overexposure may cause:; respiratory disorders, coughing*

Hazards: Symptoms of poisoning may only appear after several hours. May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: Administration of calcium gluconate.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

carbon dioxide, dry powder, alcohol-resistant foam, water spray

Unsuitable extinguishing media for safety reasons:

water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

fluorinated compounds, sulfur oxides

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

---

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

For large amounts: Use chemical neutralizing agents.

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 5/10  
(30768006/SDS\_GEN\_US/EN)

Ensure adequate ventilation. Pick up with inert absorbent material (e.g. sand, earth etc.). Take up mechanically and collect in suitable container (adequately labelled) for disposal.

---

## 7. Handling and Storage

### Precautions for safe handling

Do not return residues to the storage containers. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Warn users about safety measures and precautions to prevent accidents.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

### Conditions for safe storage, including any incompatibilities

Segregate from bases.

Suitable materials for containers: High density polyethylene (HDPE)

Suitable materials for containers: rubberized

Further information on storage conditions: The entrance to storage rooms is to be granted only to appropriately trained personnel. Keep only in the original container. Keep in a cool, well-ventilated place. Avoid direct sunlight. avoid contact with metals

Storage stability:

Storage duration: 24 Months

---

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Sulphuric acid	ACGIH, US:	TWA value 0.2 mg/m <sup>3</sup> Thoracic fraction ;
	OSHA Z1:	PEL 1 mg/m <sup>3</sup> ;

### Advice on system design:

Use only in well-ventilated areas.

### Personal protective equipment

#### Respiratory protection:

Self-contained breathing apparatus. Respiratory protection required if exposure limit (if available) may be exceeded

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), Further information on penetration time is available from the manufacturer of the glove., The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 6/10  
(30768006/SDS\_GEN\_US/EN)

polyvinylchloride (Pylox)

chloroprene rubber (Neoprene)

### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

### Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

---

## 9. Physical and Chemical Properties

Form:	liquid
Odour:	No data available.
Odour threshold:	No applicable information available.
Colour:	colourless
pH value:	< 2.5
Freezing point:	not determined
Melting point:	-22 °C
Boiling range:	not determined
onset of boiling:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	No applicable information available.
Lower explosion limit:	not applicable
Upper explosion limit:	No applicable information available.
Vapour pressure:	( 20 °C) not determined
Density:	1.105 g/cm <sup>3</sup> ( 20 °C)
Relative density:	No applicable information available.
Vapour density:	No applicable information available.
Thermal decomposition:	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	6.0 mm <sup>2</sup> /s ( 20 °C)
Solubility in water:	No applicable information available.
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

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## 10. Stability and Reactivity

### Reactivity

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 7/10  
(30768006/SDS\_GEN\_US/EN)

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:  
Corrosive effect on metals.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen.

### Conditions to avoid

Avoid direct sunlight.

### Incompatible materials

glass, metal, bases

### Hazardous decomposition products

Decomposition products:

Possible decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No applicable information available.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Of high toxicity after short-term skin contact. Of high toxicity after single ingestion.

#### Irritation / corrosion

Assessment of irritating effects: May cause severe damage to the eyes. May cause skin burns. Ingestion may cause corrosion of the gastrointestinal tract.

#### Sensitization

Assessment of sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 8/10  
(30768006/SDS\_GEN\_US/EN)

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### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

### Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

### Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

---

## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Do not allow to enter drains or waterways.

The product has not been tested. Based on available data, the classification criteria are not met.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

#### Bioaccumulation potential

No data available.

### **Mobility in soil**

#### Assessment transport between environmental compartments

No data available.

---

## 13. Disposal considerations

### **Waste disposal of substance:**

Observe national and local legal requirements.

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## 14. Transport Information

### **Land transport**

USDOT

Hazard class: 8

Packing group: II

ID number: UN 2922

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 9/10  
(30768006/SDS\_GEN\_US/EN)

Hazard label: 8, 6.1  
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Sulphuric acid, HYDROFLUORIC ACID)

### Sea transport

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 2922  
Hazard label: 8, 6.1  
Marine pollutant: NO  
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Sulphuric acid, HYDROFLUORIC ACID)

### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 2922  
Hazard label: 8, 6.1  
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Sulphuric acid, HYDROFLUORIC ACID)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### **EPCRA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
7664-39-3	Hydrofluoric acid
7664-93-9	Sulphuric acid

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
1000 LBS	7664-93-9	Sulphuric acid
100 LBS	7664-39-3	Hydrofluoric acid

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	7664-93-9	Sulphuric acid
PA	7664-39-3	Hydrofluoric acid
	7664-93-9	Sulphuric acid

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Safety Data Sheet

## Gardacid P 4298

Revision date: 2024/02/16  
Version: 3.0

Page: 10/10  
(30768006/SDS\_GEN\_US/EN)

### NFPA Hazard codes:

Health: 3      Fire: 1      Reactivity: 1      Special:

### HMIS III rating

Health: 3      Flammability: 1      Physical hazard: 1

---

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2024/02/16

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET

# SAFETY DATA SHEET

EAS6-00K44

## Section 1. Identification

<b>Product name</b>	: POWDURA® Epoxy Powder Coating ONECURE ZN
<b>Product code</b>	: EAS6-00K44
<b>Other means of identification</b>	: Not available.
<b>Product type</b>	: Powder.
<b><u>Relevant identified uses of the substance or mixture and uses advised against</u></b>	Paint or paint related material.
<b>Manufacturer</b>	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
<b>National contact</b>	: Sherwin-Williams Canada Inc. 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada
<b>Emergency telephone number of the company</b>	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
<b>Product Information Telephone Number</b>	: US / Canada: 866-722-9710 Mexico: Not Available
<b>Transportation Emergency Telephone Number</b>	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

## Section 2. Hazards identification

<b>Classification of the substance or mixture</b>	: COMBUSTIBLE DUSTS SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 60.1% (dermal), 60.1% (inhalation)
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### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May damage fertility or the unborn child.  
May form combustible dust concentrations in air.

**Date of issue/Date of revision** : 9/15/2025 **Date of previous issue** : 7/17/2025

**Version** : 32

1/16

EAS6-00K44 POWDURA® Epoxy Powder Coating  
ONECURE ZN

**SHW-85-NA-GHS-CA**

## Section 2. Hazards identification

### 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. Avoid breathing dust or mist. 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.  
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.
- 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

Ingredient name	% by weight	Identifiers
Titanium Dioxide	4.68	13463-67-7
4,4'-Isopropylidenediphenol	2.22	80-05-7
Zinc Oxide	1.79	1314-13-2
Epoxy Polymer	0.59	25036-25-3
2-Methyl-1H-imidazole	0.16	693-98-1

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.

## Section 4. First aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
- 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** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
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:  
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.

## Section 4. First aid measures

- 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 powder.
- Unsuitable extinguishing media** : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

- Specific hazards arising from the chemical** : May form explosible dust-air mixture if dispersed.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
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.

## 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 dust. 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** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

**Large spill** : 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

## 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 ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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
Titanium Dioxide	13463-67-7	<b>ACGIH TLV (United States, 1/2024) A3.</b> TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles. <b>NIOSH REL (United States, 10/2020) NIA.</b> <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust.
4,4'-Isopropylidenediphenol	80-05-7	None.
Zinc Oxide	1314-13-2	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Respirable fraction.

## Section 8. Exposure controls/personal protection

Epoxy Polymer 2-Methyl-1H-imidazole	25036-25-3 693-98-1	<p><b>NIOSH REL (United States, 10/2020)</b> TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Dust and fumes. STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Fume. CEIL: 15 mg/m<sup>3</sup>. Form: Dust.</p> <p><b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Fume.</p> <p>None. None.</p>
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**Occupational exposure limits (Canada)**

Ingredient name	CAS #	Exposure limits
Zinc Oxide	1314-13-2	<p><b>CA Saskatchewan Provincial (Canada, 4/2021)</b> STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: respirable dust and fume. TWA 8 hours: 2 mg/m<sup>3</sup>. Form: respirable dust and fume.</p> <p><b>CA British Columbia Provincial (Canada, 9/2024)</b> TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable. STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Respirable.</p> <p><b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable particulate matter.. STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Respirable particulate matter..</p> <p><b>CA Quebec Provincial (Canada, 2/2024)</b> TWAEV 8 hours: 2 mg/m<sup>3</sup>. Form: respirable aerosol fraction. STEV 15 minutes: 10 mg/m<sup>3</sup>. Form: respirable aerosol fraction.</p> <p><b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable. OEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Respirable.</p>
2-Methyl-1H-imidazole	693-98-1	<p><b>CA British Columbia Provincial (Canada, 9/2024)</b> Carc 2B.</p>

**Occupational exposure limits (Mexico)**

Ingredient name	CAS #	Exposure limits
Zinc Oxide	1314-13-2	<p><b>NOM-010-STPS-2014 (Mexico, 4/2016)</b> TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable fraction. STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Respirable fraction.</p>

**Biological exposure indices (United States)**

No exposure indices known.

**Biological exposure indices (Canada)**

## Section 8. Exposure controls/personal protection

No exposure indices known.

### Biological exposure indices (Mexico)

No exposure indices known.

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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. If operating conditions cause high dust concentrations to be produced, use dust 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.

**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** : Solid.

**Color** : Gray.

**Odor** : Not available.

**Odor threshold** : Not available.

## Section 9. Physical and chemical properties

- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not applicable.
- Vapor pressure** : Not available.
- Relative vapor density** : Not applicable.
- Relative density** : 2.57
- Density** : 2.56 g/cm<sup>3</sup>
- Solubility(ies)** :

Media	Result
cold water	Not soluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >20.5 mm<sup>2</sup>/s (>20.5 cSt)
- Molecular weight** : Not applicable.
- Particle characteristics**
- Median particle size** : Not available.
- Heat of combustion** : 1.047 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 the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

## Section 10. Stability and reactivity

**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**

4,4'-Isopropylidenediphenol

##### **Result**

**Rat - Oral - LD50**

1200 mg/kg

Toxic effects: Effects on Fertility - Female fertility index (e.g., number of females pregnant per number of sperm-positive females; number of females pregnant per number of females mated)

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

#### Skin corrosion/irritation

##### **Product/ingredient name**

Titanium Dioxide

##### **Result**

**Human - Skin - Mild irritant**

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 300 ug l

4,4'-Isopropylidenediphenol

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Zinc Oxide

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 250 mg

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

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

#### Serious eye damage/eye irritation

##### **Product/ingredient name**

4,4'-Isopropylidenediphenol

##### **Result**

**Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 ug

Zinc Oxide

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

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

#### Respiratory corrosion/irritation

Not available.

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

#### Respiratory or skin sensitization

# Section 11. Toxicological information

Not available.

## Skin

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

## Respiratory

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

## Germ cell mutagenicity

Not available.

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

## Carcinogenicity

Not available.

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

## Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
2-Methyl-1H-imidazole	-	2B	-

## Reproductive toxicity

Not available.

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

## Specific target organ toxicity (single exposure)

**Product/ingredient name**

**Result**

4,4'-Isopropylidenediphenol

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
(Respiratory tract irritation) - Category 3

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

## Information on the likely routes of exposure

Not available.

## Potential acute health effects

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

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

## Section 11. Toxicological information

- Skin contact** : May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

### 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:  
respiratory tract irritation  
coughing  
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:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

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

#### Short term exposure

**Potential immediate 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** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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

## Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
POWDURA® Epoxy Powder Coating	54170.7	N/A	N/A	N/A	N/A
4,4'-Isopropylidenediphenol	1200	N/A	N/A	N/A	N/A
2-Methyl-1H-imidazole	500	N/A	N/A	N/A	N/A

## Section 12. Ecological information

**Toxicity**

**Product/ingredient name**

Titanium Dioxide

**Result**

**Acute - LC50 - Marine water**  
 Fish - Mummichog - *Fundulus heteroclitus*  
 >1000 mg/l [96 hours]  
Effect: Mortality

4,4'-Isopropylidenediphenol

**Acute - LC50 - Marine water**  
 Crustaceans - Opossum shrimp - *Americamysis bahia* - Larvae  
Age: 24 hours  
 1.34 mg/l [48 hours]  
Effect: Mortality

**Chronic - NOEC - Fresh water**  
 Fish - Goldfish - *Carassius auratus* - Adult  
Age: 2 to 3 years  
 0.2 µg/l [90 days]  
Effect: Reproduction

**Acute - LC50 - Marine water**  
 Fish - Rivulus - *Rivulus marmoratus* - Embryo  
 3.5 mg/l [96 hours]  
Effect: Mortality

**Chronic - NOEC - Marine water**  
 Crustaceans - Harpacticoid copepod - *Tigriopus japonicus* - Nauplii  
Age: <24 hours  
 10 µg/l [21 days]  
Effect: Reproduction

**Chronic - NOEC - Marine water**  
 Algae - Dinoflagellate - *Alexandrium pacificum*  
 20.1 µg/l [4 days]  
Effect: Physiology

Zinc Oxide

**Acute - EC50**  
 OECD  
 Algae - Green algae - *Raphidocelis subcapitata*  
 1.32 mg/l [72 hours]  
Effect: Population

**Acute - LC50 - Fresh water**  
 Daphnia - Water flea - *Daphnia magna* - Neonate  
Age: <24 hours  
 98 µg/l [48 hours]  
Effect: Mortality

**Acute - LC50 - Fresh water**  
 US EPA  
 Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*  
Weight: 0.78 g  
 1.1 ppm [96 hours]  
Effect: Mortality

## Section 12. Ecological information

### Acute - IC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase  
46 µg/l [72 hours]

Effect: Population

### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 30 days; Size: 22.8 mm; Weight: 0.206 g

286 mg/l [96 hours]

Effect: Mortality

2-Methyl-1H-imidazole

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

### Persistence and degradability

Not available.

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

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
4,4'-Isopropylidenediphenol	-	20 to 67	Low
Zinc Oxide	-	28960	High

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

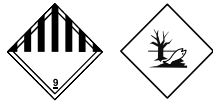
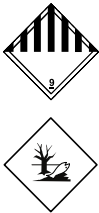
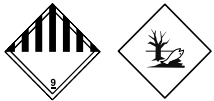
### Other adverse effects

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>IATA</b>	<b>IMDG</b>
<b>UN number</b>	UN3077	Not regulated.	Not regulated.	UN3077	UN3077
<b>UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Zinc Powder). Marine pollutant	-	-	Environmentally hazardous substance, solid, n.o.s. (Zinc Powder, 4,4'-Isopropylidenediphenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Powder, 4,4'-Isopropylidenediphenol). Marine pollutant (Zinc Powder, 4,4'-Isopropylidenediphenol)
<b>Transport hazard class(es)</b>	9 	-	-	9 	9 
<b>Packing group</b>	III	-	-	III	III
<b>Environmental hazards</b>	Yes.	No.	No.	Yes.	Yes.
<b>Additional information</b>	Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg. <b>ERG No.</b>	-	-	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Emergency schedules</b> F-A, S-F

## Section 14. Transport information

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

**Transport in bulk according to IMO instruments** : Not available.

**Proper shipping name** : Not available.

## Section 15. Regulatory information

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### **International lists**

**Australia inventory (AIIIC)**: 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		1
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



# SAFETY DATA SHEET

## AeroTron-100<sup>®</sup>

### Non-Flammable Precision Vapor Degreasing and Cleaning Solvent

#### 1. Product and Company Information:

**Product Name:** AeroTron-100


**Product General Use:** Non-Flammable Precision Vapor Degreasing and Cleaning Solvent  
for Industrial Use Only

**Manufacturer:** Reliance Specialty Products, Inc.,  
154 Easy Street – Carol Stream, IL 60188  
Ph. 847-640-8923 www.relspec.com

**Emergency Telephone Number:** CHEM-TEL 24 HOUR EMERGENCY RESPONSE  
USA and CANADA: Ph. (800) 255-3924

**Non-Emergency Telephone Number:** Reliance Technical Support Dept. at 847-640-8923

#### 2. Hazards Identification

Signal Word	Warning
Symbol	
Hazard Statements	May cause serious eye irritation May cause respiratory irritation May cause skin irritation May cause drowsiness or dizziness
Precautionary Statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Avoid release to the environment IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use carbon dioxide, dry chemical powder, alcohol foam or polymer foam for extinction IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Store in a well-ventilated place. Keep container tightly closed Dispose of contents/container in accordance with national and international regulations

**Occupation Exposure Limits:** See Section 8 of this SDS

**Additional Toxicological Information:** See Section 11 of this SDS

---

### 3. Composition and Ingredient Information

Component	Synonym	CAS Number	Weight Percentage
Proprietary Fluorinated Solvent(s) – US EPA SNAP Program Approved		Proprietary Trade Secret	<15.0%
trans-Dichloroethylene	trans-1,2-Dichloroethene	156-60-5	>85.0%
Proprietary Performance Additives		Proprietary Trade Secret	<5.0%

---

### 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion:** Do not induce vomiting. Seek medical attention.

**Skin:** Remove contaminated clothing. Thoroughly wash affected area with soap and water; use skin cream if irritation is severe.

**Eyes:** Immediately flush eyes with water for 15 minutes. Call a physician if irritation persists.

---

### 5. Fire Fighting Measures

**FLASH POINT:**

NONE by ASTM D93

NONE by ASTM D56

**FLAMMABLE LIMITS:** UEL: 7.0% LEL: 14%

**AUTOIGNITION:** 460°C

**Extinguishing Media:** Use dry chemical, chemical foam, or carbon dioxide as dictated by the surrounding circumstances.

**Special Fire Fighting Procedures:** Wear NIOSH approved self-contained breathing apparatus (set on positive pressure mode) and personal protective equipment. Avoid skin and eyes contact in fire situations.

**Unusual Fire and Explosions Hazard:** In fires, toxic and corrosive gases may be released. Vapor will form a flammable mixture in a narrow concentration range of 7.0% to 14.0% by volume in air.

---

### 6. Accidental Release Measures

Contain spillage or leakage with dikes or absorbent material to prevent migration into sewer or waterway. Absorb spill with an inert material and place in a chemical waste container for disposal. For large spills, evacuate and ventilate the area. Wear self-contained breathing apparatus and recommended personal protective equipment. Observe government regulations.

---

## 7. Handling and Storage

**HANDLING:** Handle in accordance with good industrial hygiene and safety practices. Always provide ventilation and minimize the inhaling solvent vapor and mist. Wear protective clothing, eyewear and gloves (see other sections of SDS for more details).

**STORAGE:** Store in well ventilated, cool, dry area. Store in original container only. Keep container closed when not in use. Minimize introduction of water or moisture into the product. Avoid Freezing temperatures. If stored below 15°F (-10°C) then the product must be thawed and mixed prior to usage.

**STORAGE TEMPERATURE:** Avoid overheating (temperatures above 125°F) and freezing (temperatures below 15°F).

## 8. Exposure Controls and Personal Protection

Component	Weight Percentage	Workplace Exposure Limits / Recommendations
Proprietary Fluorinated Solvent(s) – US EPA SNAP Program Approved	<15.0%	OSHA PEL: Not Established ACGIH TLV: None US EPA SNAP Program: 50 ppm 8 hour TWA, 150 ppm ceiling limit  (Note: The least favorable of all Workplace Exposure Limits/ Recommendations of these proprietary components are listed herein)
<u>trans-Dichloroethylene</u> <u>CAS 156-60-5</u>	>85.0%	OSHA PEL: 200 ppm ACGIH TLV: 200ppm
Proprietary Performance Additives	<5.0%	OSHA PEL(S): 400 ppm ACGIH TLV(S): 200 ppm  (Note: The least favorable Workplace Exposure Limits /Recommendation of all of these proprietary components are listed herein)

**RESPIRATORY PROTECTION:** Use a NIOSH approved organic vapor respirator if ventilation is not sufficient. Of particular concern are when filling, emptying or maintaining your cleaning equipment and at other instances where there is a the likelihood of high emissions of solvent vapor.

**VENTILATION AND PROPER EQUIPMENT CONTROLS:** Exposure to the product can be minimized through use of appropriate ventilation and emission controls and proper equipment maintenance.

**CLOTHING/GLOVES:** Wear safety glasses. Use of gloves is recommended. Gloves rated for organic solvents offer the best extended protection. Nitrile, neoprene, or butyl gloves offer less protection and should be used for splash protection only. DO NOT use natural rubber gloves when handling this product.

**EYE PROTECTION:** Always wear safety goggles or full-face shield.

**WORK/HYGIENIC PRACTICES:** Do not eat, drink, or smoke while working with this product. Launder soiled clothes. Provide emergency eye bath and safety shower.

## 9. Physical Properties

**APPEARANCE AND ODOR:** Clear Colorless Liquid with Ether-Like Odor  
**BOILING POINT:** (760 mm Hg): Initial 109°F (43°C) / Sustained Vapor Degreasing 116°F / (47°C)  
**FREEZE POINT:** (760 mm Hg): <-58°F (<-50°C)  
**FLASHPOINT:** None (by ASTM D93 and D56)  
**SPECIFIC GRAVITY:** (25°C, g/cm<sup>3</sup>): 1.28  
**VAPOR PRESSURE:** (atm @ 25° C): 0.52  
**SOLUBILITY IN WATER:** Negligible (0.15 g/100ml)  
**REACTIVITY IN WATER:** Not Readily Hydrolyzed

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## 10. Stability and Reactivity

**STABILITY:** Stable under normal conditions.  
**CONDITIONS TO AVOID:** Avoid open flame, electric arc and other high energy ignition sources.  
**INCOMPATIBILITY:** Incompatible with strong alkalis, oxidizers, bases, reactive metals and natural rubber.  
**HAZARDOUS DECOMPOSITION:** Thermal decomposition produces carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride and other chlorinated and fluorinated hydrocarbons.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

---

## 11. Toxicological Information

### **Proprietary Fluorinated Solvent(s) – US EPA SNAP Program Approved\***

LC50 Inhalation/Rat >20 mg/L  
LD50 Oral/Rat >2,000mg/kg  
LD50 Dermal/Rat >2,000mg/kg  
Carcinogenicity – Not listed on IARC

(\*Note: Most severe effect among proprietary components are listed).

### **trans-Dichloroethylene (CAS 156-60-5)**

LD50/Oral/Rat: >7,902 mg/kg  
LD50/ Dermal/ Rat: >5,000 mg/kg  
LC50/ Inhalation/ 4 Hour / Rat: 96 mg/l  
Skin irritant - Rabbit Testing  
Mild eye irritant – Rabbit Testing  
Mutagenicity: Tests on bacteria, mammal cell cultures and animals did not show mutagenic effects.  
Carcinogenicity – Not listed on IARC

### **Proprietary Performance Additives\*:**

LD50 Oral/Rat >5,000 mg/kg  
LD50 Dermal/Rabbit > 11,000 mg/kg  
LC50: Inhalation/Rat >50,000 mg/m<sup>3</sup>  
Carcinogenicity: Not classified by IARC

(\*Note: Most severe effect among proprietary components are listed).

---

## 12. Ecological Information

### Proprietary Fluorinated Solvent(s)

96 hour LC50 for rainbow trout: >12.0 mg/l

48 hour LC50 for Daphnia magna: >10.0 mg/l

### trans-Dichloroethylene (CAS 156-60-5)

96 hour LC50 for flathead minnows: 27.2 mg/l

48 hour LC50 for Daphnia magna: 79 mg/l

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## 13. Disposal Considerations

Follow all Federal, State and Local governmental regulations. DO NOT flush into sanitary sewer or waterway.

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## 14. Transportation Information

### CLASSIFICATION:

FOR 1, 5, 30 and 55 GALLON PACKAGES: Not regulated for transportation by US DOT or USPS for shipment

FOR PACKAGES GREATER THAN 1000lbs.: Regulated for Shipment – Contact Manufacturer for Specific Details

**PROPER SHIPPING NAMES:** Cleaning Solvent Mixture

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## 15. Regulatory Information

**TSCA:** All components of this product are listed on the EPA TSCA inventory. One or more of the Proprietary Fluorinated Solvents are controlled by TSCA Section 5, Significant New Use Rule (SNUR; 40 CFR 721.5645) and is the subject of a significant new use rule (SNUR) under 40 CFR Part 721.

**NESHAP:** Not Regulated under NESHAP

**RCRA:** N/A

**HAP:** Not a Hazardous Air Pollutant under NESHAP

**SARA:** Section 304 (RQ): None of the components have a RQ

Section 302 (TPQ): None of the Components have a TPQ

Section 313: The following components are subject to the reporting requirements of Section 313 of SARA Title III: trans-Dichloroethylene (CAS 156-60-5)

**CERCLA:** RQ of 1000lbs. for trans-Dichloroethylene (CAS 156-60-5)

### **US EPA SNAP PROGRAM:**

- **FINAL USE APPROVAL:** USEPA SNAP Program Final Approval was issued for in Metal Cleaning, Electronics Cleaning and Precision Cleaning for all solvent components in the AeroTron Formulation.

**California Proposition 65:** Conforms to Proposition 65 - No components are contained on the California Proposition 65 List

**PA Right to Know Regulated Chemical(s):** Substances on the PA Hazardous Substances List present at a concentration greater than 1.0%: trans-Dichloroethylene

**NJ Right to Know Regulated Chemical(s):** Substances on the NJ Workplace Hazardous Substances List present at a concentration of 1.0% or more: trans-Dichloroethylene

**EEC (EINECS):** Ingredients Listed **CANADA (DSL):** Ingredients Listed

## 16. Other Information

### HMIS RATING (Scale 0 to 4):

	HMIS
Health	1
Flammability	0
Physical Hazards	0



**\*Chronic Hazard (Long-term health effects may result from repeated overexposure.)**

0= Minimal Hazard, 1= Slight Hazard, 2= Moderate Hazard, 3 = Serious Hazard, 4= Severe Hazard

Reliance Specialty Products, Inc.'s offers the information and opinions contained in this Material Safety Data Sheet as a guide to the physical characteristics and use of this Product and believe it to be accurate as of the date of this document. However, it is the responsibility of the user to establish the suitability of the Product for their particular application and to establish the conditions for safe use of the product and compliance with all applicable laws and regulations. Reliance Specialty Products, Inc. disclaims all warranties, express or implied, in connection with the opinions and information contained herein and the use of the Product.

**END OF SDS**



## CHEMEON TCP-HF™

### SECTION 1: Identification

**Product identifier:** CHEMEON TCP-HF™  
**Other names:** Not applicable.  
**Product Code Number:** Not applicable.  
**Recommended use:** Conversion coating and Anodizing Sealant.  
**Recommended restrictions:** Uses other than as recommended above.

#### Manufacturer/Importer/Supplier/Distributor information:

**Company Name:** CHEMEON Surface Technology, LLC.  
**Company Address:** 2241 Park Place, Bldg. B  
Minden, NV 89423.  
**Company Telephone:** (775) 782-8324  
**Company Contact Name:** Customer Service  
8:00 AM – 5:00 PM PST, Mon-Fri.  
**Emergency phone number:** Chemtrec 24 hr. Emergency Telephone  
800-424-9300 within U.S.  
703-527-3887 outside U.S.

### SECTION 2: Hazard(s) identification

#### Classification of the chemical in accordance with paragraph (d) of §1910.1200:

##### *Physical hazards*

No physical hazards under GHS classification.

##### *Health hazards*

Skin irritation, Category 2.  
Eye irritation, Category 2A.

##### *Environmental hazards*

No environmental hazards under GHS classification.

**GHS Signal word:** WARNING.

**GHS Hazard statement(s):** H315 - Cause skin irritation.  
H319 - Causes serious eye irritation.

**GHS Hazard symbol(s):**



**GHS Precautionary statement(s):**

**Prevention:**

- P264 - Wash skin thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/ eye protection/ face protection.

**Response:**

- P302+P352 - If on skin: Wash with plenty of water.
- P305 + P351 + P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash it before reuse.

**Storage:**

- No storage precautionary statements required.

**Disposal:**

- Dispose of contents/container in accordance with local/regional/national/ international regulations.

**Hazard(s) not otherwise**

**Classified (HNOC):** None known.

**Percentage of ingredient(s) of unknown acute toxicity:**

99% of the mixture consists of ingredients of unknown acute toxicity (oral).

100% of the mixture consists of ingredients of unknown acute toxicity (dermal/inhalation).

<b>SECTION 3: Composition/information on ingredients</b>
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**Mixture:**

Chemical name	CAS#	Concentration (weight %)
Chromium Sulfate, Basic Solution	12336-95-7	< 2%

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

<b>SECTION 4: First-aid Measures</b>
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**Inhalation:** Immediately move person to fresh air if vapor or mist of product is inhaled. Seek immediate medical attention if symptoms develop.

**Skin contact:** Immediately remove all contaminated clothing. Wash affected area with water and soap. If irritation occurs seek medical attention.

**Eye contact:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Ensure adequate flushing of eyes by separating eyelids with fingers. Seek medical attention.

**Ingestion:** Wash out mouth with large amounts of water and do not induce vomiting. Seek medical attention.

**Most important symptoms/effects, acute and delayed:** Prolonged and/or repeated contact may cause fluoride type irritation and/or dermatitis. May cause irritation to the eye. May cause GI irritation, including nausea, vomiting, and diarrhea. May be harmful if swallowed in large quantities. May exacerbate pre-existing eye, skin, and lung disorders.

**Indication of immediate medical attention and special treatment needed:** If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

## SECTION 5: Fire-fighting measures

**Suitable extinguishing media:** Product is an aqueous mixture and will not burn. Use measures suitable to surrounding fire. Use Water, CO<sub>2</sub> or dry chemical.

**Unsuitable extinguishing media:** Not applicable.

### Specific hazards arising from the chemical:

USE WATER WITH CAUTION! Material will float and may ignite on the surface of water. Fight fire from a protected location. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool. Vapors may cause a flash fire or ignite explosively. Vapors may travel to a source of ignition and flashback. Prevent buildup of vapors to explosive concentrations.

Hazardous combustion products - Fire conditions may produce small amounts of hexavalent chromium, SO<sub>2</sub>, SO<sub>3</sub> and HF if exposed to elevated temperatures.

### Special protective equipment and precautions for fire-fighters:

Wear full protective clothing and a self-contained respirator to avoid inhalation of possibly irritating and toxic fumes. Fight fire from a protected location. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Evacuate danger area. Stay upwind and away from spill/release. Avoid direct contact with liquid and vapors. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

**Methods and material for containment and cleaning up:** Absorb spill with inert material and shovel into appropriate waste disposal container. Dispose of collected material according to regulations.

## SECTION 7: Handling and Storage

**Precautions for safe handling:** Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. For industrial use only. Do not take internally. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of the product.

**Conditions for safe storage, including any incompatibles:** Keep container tightly closed in a cool, well-ventilated place. Keep away from heat and light. Store above 40°F, away from strong bases/alkalis and strong oxidizers.

## SECTION 8: Exposure controls/personal protection

**Control Parameters:**

**Occupational exposure limits:**

<b>US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits</b>			
<b>Substance</b>	<b>PEL-TWA (8 hour)</b>	<b>PEL-STEL (15 min)</b>	<b>REMARKS</b>
Chromium Sulfate, Basic Solution (as Cr)	0.5 mg/m <sup>3</sup>	No data available	

<b>US ACGIH Threshold Limit Values</b>			
<b>Substance</b>	<b>TLV-TWA</b>	<b>TLV-STEL</b>	<b>REMARKS</b>
Chromium Sulfate, Basic Solution (as Cr)	0.003 mg/m <sup>3</sup> -(IHL)	No data available	

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear safety glasses and a face shield where a splash hazard exists. Wear a full-face respirator, if needed. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and Hand protection:** Impervious gloves and protective clothing are recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Other:** Eye wash, safety shower and washing facilities should be available in the work area.

**Thermal hazards:** No data available.

<b>SECTION 9: Physical and chemical properties</b>
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**Appearance**

<b>Physical state:</b>	Liquid
<b>Color:</b>	Translucent dark-green
<b>Odor:</b>	Mild to no odor.
<b>Odor threshold:</b>	No data available
<b>pH:</b>	2.1 – 3.5
<b>Melting point/freezing point:</b>	freezing point 0 °C
<b>Initial Boiling Point and boiling range:</b>	> 100 °C (> 212 °F) @ 760 mmHg
<b>Flash point:</b>	Not applicable
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not applicable
<b>Flammability limit – upper (%):</b>	Not applicable
<b>Explosive limit – lower (%):</b>	Not applicable
<b>Explosive limit – upper (%):</b>	Not applicable
<b>Vapor pressure:</b>	Not determined
<b>Vapor density (air=1):</b>	Not determined
<b>Relative density (water = 1):</b>	Not determined
<b>Solubility(ies):</b>	100%
<b>Partition coefficient (n-octanol/water):</b>	Not available

<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not available
<b>Viscosity @ 20°C:</b>	Not available
<b>Weight per gallon:</b>	8.5 lbs.
<b>% Volatiles by wt:</b>	0

### SECTION 10: Stability and Reactivity

<b>Reactivity:</b>	Not chemically reactive.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions not anticipated.
<b>Conditions to avoid:</b>	Avoid contact with incompatible materials, elevated temperatures, sparks, flames and ignition sources.
<b>Incompatible materials:</b>	This product is incompatible with strong bases/alkalis and strong oxidizers.
<b>Hazardous decomposition products:</b>	This product may emit harmful gases if exposed to elevated temperatures. Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

#### Information on likely routes of exposure:

<b>Inhalation:</b>	None expected. May exacerbate lung disorders.
<b>Ingestion:</b>	None expected. May cause GI irritation, including nausea, vomiting, and diarrhea. Maybe harmful if swallowed in large quantities.
<b>Skin:</b>	Prolonged and/or repeated contact may cause fluoride-type irritation and/or dermatitis. Skin absorption not expected.
<b>Eyes:</b>	May cause irritation to the eye.
<b>Target Organ(s):</b>	Eye, skin, lungs.

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

May exacerbate pre-existing eye, skin, and lung disorders.

#### Delayed and immediate effects and chronic effects from short or long-term exposure:

Prolonged and/or repeated contact may cause fluoride type irritation and/or dermatitis.

#### Numerical measures of toxicity:

##### Acute toxicity estimates:

##### Ingredient Information:

Substance	Test Type (species)	Value
Chromium Sulfate, Basic Solution	LD <sub>50</sub> Oral (Rat)	No data available
	LD <sub>50</sub> Dermal (Rabbit)	No data available
	LC <sub>50</sub> Inhalation (Rat)	No data available

**Product Acute Toxicity Estimates:**

Acute Oral Toxicity – no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

<b>Skin corrosion/irritation:</b>	Prolonged and/or repeated contact may cause fluoride-type irritation and/or dermatitis.
<b>Serious eye damage/eye irritation:</b>	This material can cause eye irritation. Symptoms may include irritation, redness, and tearing.
<b>Respiratory sensitization:</b>	No information available on the mixture, however none of the components have been classified for respiratory sensitization (or are below the concentration threshold for classification).
<b>Skin sensitization:</b>	No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).
<b>Germ cell mutagenicity:</b>	No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
<b>Carcinogenicity:</b>	No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
<b>Reproductive toxicity:</b>	No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
<b>Specific target organ toxicity- Single exposure:</b>	No information available on the mixture, however none of the components have been classified for Specific target organ toxicity- Single exposure (or are below the concentration threshold for classification).
<b>Specific target organ toxicity-</b>	

**Repeat exposure:** No information available on the mixture, however none of the components have been classified for Specific target organ toxicity- Single exposure (or are below the concentration threshold for classification).

**Aspiration hazard:** No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).

**Further information:** No data available

## SECTION 12: Ecological information

### Ecotoxicity:

**Product data:** No data available

### Ingredient Information:

Substance	Test Type	Species	Value
Chromium Sulfate, Basic Solution (as Cr)	LC <sub>50</sub>	Fish	No data available
	EC <sub>50</sub>	Invertebrate	No data available
	EC <sub>50</sub>	Algae	No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other adverse effects:** None anticipated.

## SECTION 13: Disposal considerations

### Disposal instructions:

**Product** - Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated packaging** - Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

## SECTION 14: Transport Information

### Land transport DOT

This material is not classified as dangerous under DOT regulations.

**Maritime transport IMDG**

This material is not classified as dangerous under IMDG regulations.

**Air transport ICAO-TI and IATA-DGR**

This material is not classified as dangerous under IATA regulations.

**Environmental hazards**

Marine pollutant: No.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

No further relevant information available.

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

None.

<b>SECTION 15: Regulatory Information</b>
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**USA:**

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All substances in this product are listed, as required, or are exempt from the TSCA inventory.

**CERCLA Hazardous Substance List, 40 CFR 302.4:** None

**SARA Title III**

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None

**Section 311/312 (40 CFR 370):**

**Acute Health Hazard:** Yes

**Chronic Health Hazard:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactivity Hazard:** No

**Section 313 Toxic Release Inventory (40 CFR 372):**

Component	CAS No.	Weight %
Chromium Sulfate, Basic Solution	12336-95-7	< 2%

**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):**

This product does not contain chemicals known to the State of California to cause reproductive effects.

**New Jersey Right to Know:** Chromium Hydroxide Sulfate is listed on the New Jersey Right to Know list.

**Pennsylvania Right to Know:** Chromium Hydroxide Sulfate is listed on the Pennsylvania Right to Know List.

**Canada WHMIS Hazard Class:** This product has been classified as Class D2B in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**SECTION 16: Other Information**

**To the best of our knowledge, the information contained herein is accurate. However, CHEMEON Surface Technology, LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.**