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### Section 1. Supplier Information



**General Chemical Corp.**  
12336 Emerson Drive  
Brighton, MI 48116  
(248) 587-5600  
**Emergency Telephone: 1-800-424-9300**

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### Section 2. Hazardous Ingredients

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Glycerin	56-81-5	15 mg/m	N/E	10 mg/m <sup>3</sup>	N/E	N/E	5-15
Titanium dioxide	13463-67-7	15 mg/m	N/E	10 mg/m <sup>3</sup>	N/E	N/E	1 - 10
Triethanolamine	102-71-6	N/E	N/E	5 mg/m <sup>3</sup>	N/E	N/E	< 5
Talc	14807-96-6	20 mppc	N/E	2 mg/m <sup>3</sup>	N/E	N/E	< 1

N/A = Not Applicable; N/E = Not Established; \* = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; \*\* = Fumes; C = Ceiling Limit

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All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

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### Section 3. Hazards Identification

#### Signs of Symptoms of Exposure:

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### Section 6. Accidental Release Measures

If material is spilled, absorb with sand, earth, or similar inert material. Place in closed, labeled containers for proper disposal.

CERCLA (Superfund) Reportable Quantity (in lbs None.

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### Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: KEEP FROM FREEZING! Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels.

Other: Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

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### Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Not required under normal conditions of use.

Local Exhaust: None normally required. Local exhaust may be needed under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.

Other Protection: Eye wash and safety shower should be readily available.

Hygienic Practices: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

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### Section 11. Toxicological Information

Glycerin [CASRN 000056-81-5]

#### ACUTE TOXICITY

Oral LD50 (rat) = 12.6 g/kg    Dermal LD50 (rabbit) = 10 g/kg  
Oral LD50 (mouse) = 4.1 g/kg    Inhalation LC50 (rabbit) > 0.57 mg/l  
Oral LD50 (guinea pig) = 7.8 g/kg

EYE IRRITATION: 126 mg of Glycerin applied to the eyes of rabbits in a Draize test resulted in mild irritation.

SKIN IRRITATION: Primary Irritation Index of Glycerin = 0.3. 500 mg of glycerin applied to the skin of rabbits over a 24 hour period resulted in moderate irritation.

Other Toxicity Data: Repeated excessive exposures may cause increased fat levels in blood. Observations in animals include kidney, liver, and gastrointestinal effects with very large oral doses. Did not cause cancer in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. Reproductive effects seen in females are believed to be due to altered nutritional states resulting from extremely high doses in their diets. Similar effects have been seen in animals fed synthetic diets. [0,0-6,J,G-080398]

Titanium dioxide [CASRN 013463-67-7]

ACUTE TOXICITY Oral LD50 (rat) > 24 g/kg  
Dermal LD50 (rabbit) > 2.0 g/kg  
Inhalation LC50 (rat) > 6820 mg/m<sup>3</sup> (4 hr) [2,13-0,8,8,19,22-112095]

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Triethanolamine (TEA) [CASRN 000102-71-6]

**ACUTE TOXICITY**

Oral, LD50 (Rat; female) = 4.92 ml/kg      Dermal, LD50 (Rabbit) > 16 ml/kg; 24 h occluded.  
Oral, LD50 (Rat; male) = 8.57 ml/kg

**SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS**

Recent analyses of Triethanolamine for N-nitrosodiethanolamine have not revealed its presence at the detection limit of the test (20ppb). However, amines may react with nitrites or other nitrosating agents to form nitrosamines. Some nitrosamines have been shown to be carcinogenic in laboratory animals. [20, 2-19,4,0,5,6-062300]

Talc [CASRN 014807-96-6]

**INHALATION:** TCLO (rat) = 11 mg/m<sup>3</sup> administered intermittently over a year produces a toxic effect. Inhalation of dust may cause sneezing, coughing, and nose irritation. Long-term excessive exposures may cause talcosis, a pulmonary fibrosis, which in turn may lead to sever and permanent damage to the lungs.

**SKIN:** Implant, TDLO (rat) = 200 mg/kg; Human skin: 300 micrograms administered intermittently over a 3 day period produces mild irritation. The abrasiveness of the material may cause skin irritation.

**EYE:** Abrasion may cause irritation.

**INGESTION:** May cause mild irritation of the gastrointestinal tract. [1,0-12,12,15,P,D,I-112697]

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**Section 12. Ecological Information**

Glycerin [CASRN 000056-81-5]

(based largely or completely on information for a similar material - i.e. glycerine)

**ECOTOXICITY**

Fathead minnow LC50 = 44 g/l

Goldfish LC50 > 5 g/l

**DEGRADATION**

BOD5 = 0.54 p/p      ThOD = 1.22 p/p (calculated)

BOD10 = 0.98 p/p      IC50 (bacteria) > 1000 mg/L (OECD Test No. 209)

BOD20 = 1.0 p/p

Biodegradation under aerobic static conditions is high (BOD20 or BOD28/ThOD > 40 %).

**MOVEMENT**

log Pow = -1.76 Bioconcentration potential is low (BCF < 100; log Pow < 3 )

[3-6,20,18,15,J,G-101895]

Triethanolamine (TEA) [CASRN 000102-71-6]

**AQUATIC TOXICITY** Expected to have low toxicity to aquatic species.

**MOBILITY** Not expected to selectively partition and absorb to soil or sediments.

**BIODEGRADABILITY** Readily biodegradable and are not expected to persist in the environment.

**POTENTIAL TO BIOACCUMULATE** Not expected to bioaccumulate. [7,20-19,J,J,11,5,6,I,F-092299]

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**Section 13. Disposal Considerations**

Waste Disposal Methods (Federal, State, Local):

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In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: N/A

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#### **Section 14. Transport Information**

##### Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: NOT REGULATED

Domestic ground bulk: NOT REGULATED

International: NOT REGULATED

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#### **Section 15. Regulatory Information**

SARA 313 Information This product contains the following chemical(s) above de minimis concentrations and may be subject to reporting under section 313:

None.

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#### **Section 16. Other Information**

This MSDS contains revisions in the following sections: New format

Prepared by: Debra Ference Regulatory & Safety Coordinator

Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.