







sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Avoid discharge into the environment.

**Methods and materials for containment and cleaning up:**

**Small Spills:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with a non-combustible absorbent material (sand, earth, diatomaceous earth, vermiculite) and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor according to local/national regulations. .

**Large Spills:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**Section 7 - Handling & Storage**

**Safe Handling Measures:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Ground and bond container and receiving equipment. Use non-sparking tools and explosion proof equipment when handling this material. Keep away from sources of ignition - No Smoking. Use in cool, well-ventilated areas. Keep containers closed when not in use. Take measures to prevent the build up of electrostatic charge. Follow all SDS and label precautions even after container is emptied because they may retain product residues. For precautions see section 2.

**General Occupational Hygiene:** Wash hands before eating, drinking or smoking . See section 8 for additional information on hygiene measures.

**Storage Requirements:** Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces-No Smoking. Store in a cool, dry and well-ventilated place. Do not reuse container when empty.

**Section 8 - Exposure Controls/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Isopropyl Alcohol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

**Engineering Controls:** Ground and bond container and receiving equipment. Use explosion proof electrical, ventilation, lighting and motorized equipment. Use non-sparking tools.

**Ventilation:** General mechanical ventilation or local exhaust should be utilized to keep vapor concentrations below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof.

**Safe Work Practices:** Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking . Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Smoking in area where this material is used should be strictly prohibited. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used. Spraying of material can cause an oxygen deficient environment. Use proper ventilation to remove vapors, mist and fumes combined with NIOSH approved respirator.

**Respiratory Protection:** When working with this material use a MSHA/NIOSH approved cartridge respirator or suitable respiratory protection to keep airborne mists and vapor concentrations below the PEL & TLV limits . When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

**Eye/Face Protection:** Use safety glasses with chemical splash goggles or faceshield.

**Skin Protection:** Use chemical resistant gloves.

**Body Protection:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Contaminated Gear/Hygiene Practices:** Remove all contaminated clothing and wash thoroughly when finished working. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep food and drink away from materials and from area where material is being used or stored.

## Section 9 - Physical & Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<p><b>Appearance</b> Clear</p> <p><b>Odor</b> Organic Solvent</p> <p><b>pH:</b> No data available</p> <p><b>Freezing point:</b> No data available</p> <p><b>Flash point:</b> 54 F, 12 C</p> <p><b>Flammability:</b> No data available</p> <p><b>Vapor Pressure:</b> 23.7 mm Hg</p> <p><b>Density (Lb / Gal)</b> 7.04</p> <p><b>Partition coefficient (n- octanol/water):</b> No data available</p> <p><b>Decomposition temperature:</b> No data available</p> <p><b>Regulatory Coating VOC g/L</b> 772</p> <p><b>Actual Coating VOC g/L</b> 591</p> <p><b>Weight Percent Volatile</b> 97.83</p> <p><b>% Weight VOC</b> 70.10</p> <p><b>% Wt Exempt VOC</b> 0.00</p>	<p><b>Physical State</b> Liquid</p> <p><b>Odor threshold:</b> No data available</p> <p><b>Melting point:</b> No data available</p> <p><b>Boiling range:</b> 83°C</p> <p><b>Evaporation rate:</b> No data available</p> <p><b>Explosive Limits:</b> 2% - 19%</p> <p><b>Vapor Density:</b> 2.1</p> <p><b>Solubility:</b> No data available</p> <p><b>Autoignition temperature:</b> 393°C</p> <p><b>Viscosity:</b> No data available</p> <p><b>Regulatory Coating VOC lb/gal</b> 6.44</p> <p><b>Actual Coating VOC lb/Gal</b> 4.93</p> <p><b>Specific Gravity (SG)</b> 0.844</p> <p><b>% Weight Water</b> 27.7</p> <p><b>% Vol Exempt VOC</b> 0.00</p>
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## Section 10 - Stability and Reactivity

**Reactivity:** No data available

**Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Vapors may form explosive mixture with air. Hazardous polymerization will not occur.

**Conditions to avoid:** Heat, flame and sparks. Extreme temperature and direct sunlight.

**Incompatible with:**

No Data Available

**Hazardous products produced under decomposition:**

Oxides of carbon

**Section 11 - Toxicological Information**

**Mixture Toxicity**

Oral Toxicity: 2,664mg/kg

**Component Toxicity**

67-63-0

Isopropyl Alcohol

Oral: 1,870 mg/kg (Rat) Dermal: 4,059 mg/kg (Rabbit)

This mixture has not been tested for toxicological effects.

**Acute Effects:**

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination.

EYE CONTACT - Moderate irritation, tearing, redness, and blurred vision.

SKIN CONTACT - Moderate irritant. Can dry and defat skin causing cracks, irritation, and dermatitis.

INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

**Chronic Effects:**

May affect liver, kidney and central nervous system with repeated exposure. Prolonged or repeated exposure may cause lung injury.

**Routes of Entry**

Inhalation

Skin Contact

Eye Contact

Ingestion

**Target Organs**

Eyes

Skin

Respiratory System

**Effects of Overexposure**

Short Term Exposure

Glycerin can be irritating to the eyes, skin, and respiratory tract. When swallowed, it can cause insomnia, nausea, vomiting, diarrhea, fever, hemoglobinuria, convulsions and paralysis. Toxic in high concentrations; it is somewhat dehydrating and irritating to exposed tissues. Symptoms include headache, dizziness, insomnia, nausea, vomiting, diarrhea, fever, elevated blood sugar and diabetic coma; very large doses may cause irritation and dehydration of tissues, hemolysis, renal failure, hemoglobinuria, convulsions, and paralysis.

Long Term Exposure

May cause kidney damage.

The following chemicals comprise of at least 0.1% of this mixture and are listed and/or classified as carcinogens or potential carcinogens by the NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing).

CAS Number

Description

% Weight

Carcinogen Rating

None

No Data Available

**Section 12 - Ecological Information**

This material has not been tested for ecological effects.

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** Contains photochemically reactive solvent.

**Component Ecotoxicity:**

Isopropyl Alcohol

96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L  
48 Hr EC50 Daphnia magna: 13299 mg/L  
96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

## Section 13 - Disposal Considerations

Product and container should be disposed of in accordance with all local, regional, national and international regulations. Contact a licensed professional waste disposal service to dispose of this material. Subject to hazardous waste generation, treatment, storage and disposal rules under RCRA, 40CFR261.

## Section 14 - Transportation Information

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
IATA	Isopropanol solution	UN1219	II	3
IMDG	Isopropanol solution	UN1219	II	3
DOT	Isopropanol solution	UN1219	II	3

For inner packagings not exceeding 5L each packaged in a strong outer box: Limited Quantity

## Section 15 - Regulatory Information

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

**Australia-AICS:** The following chemicals are listed:

- 56-81-5 Glycerin 1 to 5 %
- 7732-18-5 Water 20 to 30 %
- 67-63-0 Isopropyl Alcohol 60 to 70 %

**China-SEPA (IECSC):** The following chemicals are listed :

- 56-81-5 Glycerin 1 to 5 %
- 7732-18-5 Water 20 to 30 %
- 67-63-0 Isopropyl Alcohol 60 to 70 %

**DSL Status:** The following chemicals are listed on the DSL Inventory.

- 56-81-5 Glycerin 1 to 5 %
- 7732-18-5 Water 20 to 30 %
- 67-63-0 Isopropyl Alcohol 60 to 70 %

**HAPS:** This formulation contains the following HAPS:

- None

**NDSL Status**

- None

**NJ RTK:** The following chemicals are listed under New Jersey RTK

- 56-81-5 Glycerin 1 to 5 %
- 67-63-0 Isopropyl Alcohol 60 to 70 %

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including

- None

, which is[are] known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including

- None

which is[are] known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**PA RTK:** The following chemicals are listed under Pennsylvania RTK:

56-81-5 Glycerin 1 to 5 %

67-63-0 Isopropyl Alcohol 60 to 70 %

**SARA 312:** This Product contains the following chemicals subject to the reporting requirements of SARA 312:

- None

**SARA 313:** This Product contains the following chemicals subject to the reporting requirements of SARA 313:

- None

**TSCA:** The following are not listed under TSCA:

- None

**Section 16 - Other Information**

Note: HMIS Ratings involve data and interpretations that can vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

**Hazardous Material Information System (HMIS)**

HEALTH	<input type="text"/>	1
FLAMMABILITY	<input type="text"/>	3
PHYSICAL HAZARD	<input type="text"/>	0
PERSONAL PROTECTION	<input type="text"/>	

**HMIS & NFPA Hazard Rating**

**Legend**

\* = Chronic Health Hazard

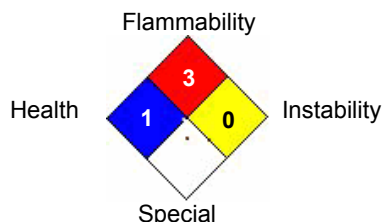
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

**National Fire Protection Association (NFPA)**



Date Prepared: 8/18/2020

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, **KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL AND INDUSTRIAL USE ONLY.** The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.