

**MATERIAL SAFETY DATA SHEET**

Total Solutions  
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**TOTAL  
SOLUTIONS**

GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

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**I - Product Identification****Rust Converter Aerosol**

PRODUCT CODE: 8346

CHEMICAL FORMULATION: Pressurized rust treatment.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 1  
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

**II - Hazardous Ingredients**

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Acetone	40.0-60.0	500 ppm	1000 ppm	Y	N	N	67-64-1
Isopropanol	1.00-10.0	400 ppm	400 ppm	N	N	N	67-63-0
Ethylene Glycol	1.00-5.00	N/E	N/E	Y	N	Y	107-21-1
Tannic Acid	1.00-5.00	N/E	N/E	N	N	N	1401-55-4
Oxalic Acid	1.00-5.00	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	N	N	N	144-62-7
Dimethyl Ether	10.0-20.0	1000 ppm	1000 ppm	N	N	N	115-10-6
Liquified Petroleum Gas Mixture	10.0-20.0	See below	See below	N	N	N	68476-86-8
Isobutane	(76-84)	1000 ppm	N/E	N	N	N	75-28-5
Propane	(16-24)	1000 ppm	1000 ppm	N	N	N	74-98-6

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

**III - Physical Data**

BOILING POINT (°F): N/A SPECIFIC GRAVITY (WATER = 1): 0.7435 ±  
VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): 35.0-40.0  
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): N/D  
SOLUBILITY IN WATER: Complete pH: N/D  
APPEARANCE AND ODOR: Clear, brown aerosol spray; solvent odor.

**IV - Fire and Explosion Hazard Data**

FLASH POINT (°F): > -4 (concentrate) (TEST METHOD): NFPA 30B Rating: 3  
FLAMMABLE LIMITS IN AIR (VOLUME %) (Propellant) UPPER: 8.0 LOWER: 3.4  
EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide, dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARD: At elevated temperatures (over 54C-130F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

### V - Reactivity Data

**STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizers, alkalis.

**CONDITIONS TO AVOID:** Keep away from heat, sparks and open flame. Dropping of containers may cause bursting.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

### VI - Health Hazard Data

**ROUTES OF ENTRY**    **INHALATION:** X    **EYE CONTACT:** X    **SKIN CONTACT:** X    **INGESTION:**  
**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None

#### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** May cause burns and/or severe irritation.

**IF ON SKIN:** Severe irritation and burns. Prolonged or repeated contact may dry or defat the skin and lead to inflammation (e.g. dermatitis). May be harmful if absorbed thru skin.

**IF SWALLOWED:** Exposure by ingestion is unlikely since an aerosol, but if ingested the following may occur: severe burns to the mouth, throat and stomach. May be harmful if swallowed. Possible aspiration hazard – may cause inflammation of the lungs. May cause nausea, vomiting, pain and stomach upset (e.g. diarrhea).

**IF INHALED:** Caused burns to the nose and respiratory tract. Irritating to the eyes, nose and respiratory tract.

**The following organs may be affected:** Liver, Kidneys, Nervous system, Lungs and/or respiratory system, Eyes, Skin, Heart and/or circulatory system, Blood and/or blood forming organs.

#### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Flush skin with plenty of water for 15 minutes. Remove contaminated clothing and launder separately before reuse. Obtain immediate medical attention.

**IF SWALLOWED:** Contact physician or poison control center immediately. Rinse mouth with water and give affected person 1 to 2 glasses of water to dilute. Do not induce vomiting unless instructed by a physician or poison control center. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air. If breathing has stopped, administer artificial respiration. Obtain medical attention if irritation persists.

### VII - Spill or Leak Protection

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spill. Ventilate area and remove all sources of ignition. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities. Dispose of cans in non-incinerated trash only.

### VIII - Special Protection Information

**RESPIRATORY PROTECTION:** Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

**VENTILATION**

**LOCAL:** Recommended

**MECHANICAL:** Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Safety glasses.

**OTHER PROTECTIVE EQUIPMENT:** None.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat, sparks or open flame. Do not expose to direct sunlight or store at temperatures above 120°F.

**OTHER PRECAUTIONS:** Keep out of reach of children. Do not puncture or incinerate container.

### IX - Transportation Information (ground transportation only)

**DOT PROPER SHIPPING NAME:** Consumer Commodity

**DOT CLASS:** ORM-D

**DOT ID NUMBER:** None

**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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**Prepared by:** Technical Dept.

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