

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ASTEC # 900

PART NUMBER:

GENERAL USE: Protective coating

PRODUCT DESCRIPTION: White viscous liquid, slight characteristic acrylic odor



MANUFACTURER'S NAME

Insulating Coatings Corporation

DATE PREPARED: March 9, 2009

SUPERSEDES: March 31, 2008

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ADDRESS (NUMBER, STREET, P.O. BOX)

956 South Hwy 41

TELEPHONE NUMBER FOR INFORMATION

(800) 345-5306

(CITY, STATE AND ZIP CODE)

Inverness, FL 34450

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Harmful or fatal if swallowed, harmful if inhaled. May cause allergic skin reaction. May cause irritation to skin, eyes, and respiratory tract. Affects central nervous system Hazard Symbols for this product - Xn. Risk Phrases - R 20/22

POTENTIAL HEALTH EFFECTS

INHALATION: None expected, however, certain individuals may experience minor nausea or headaches.

SKIN: None expected, however, prolonged contact may cause irritation.

EYES: This product is an eye irritant. Contact with the eyes will cause irritation.

INGESTION: Large quantities may be harmful or fatal if swallowed. May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

SECTION 3 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS | % (by weight) | CAS # | EINECS # | Hazard Symbol | RISK PHRASES Full Text Section 16 |
|--------------------------|------------------|-----------|-----------|------------------|--------------------------------------|
| Ethylene glycol (a,b,c) | 1 - 5 | 107-21-1 | 203-473-3 | Xn | R-22 |
| Zinc oxide (as zinc) (a) | 1 - 5 | 1314-13-2 | 215-222-5 | Xn | R-20 |

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

(a,c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; seek medical attention; never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is not considered flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES

Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes or vapors, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills - wash to sanitary sewer with plenty of water. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS | NIOSH | | | | ACGIH | | | |
|--------------------------|---------|-----------|----------|------------|---------|-----------|----------|------------|
| | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Ethylene glycol (a,b,c) | -- | -- | -- | -- | 39.4 C | 127 C | 39.4 (C) | 127 (C) |
| Zinc oxide (as zinc) (a) | -- | 5,5C | -- | 10 | -- | 5,10 | -- | 10 |

A "C" in the NIOSH or ACGIH column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required; however, if misting occurs, NIOSH approved respirator capable of removing particulate from air must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Recommended for general protection

EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|--|----------------------------|
| APPEARANCE AND ODOR White viscous liquid, slight characteristic acrylic odor | VAPOR PRESSURE 17 mm Hg @ 20° C | |
| pH 9.0 - 9.8 | SPECIFIC GRAVITY (WATER = 1) 1.190 | |
| BOILING POINT / BOILING RANGE 212° F (100° C) | SOLUBILITY IN WATER Partially soluble | VISCOSITY Not specified |
| FLASH POINT Non-flammable | VOLATILE ORGANIC COMPOUNDS (VOC's) 0.1 lbs / gallon (11.9 grams / liter) (calculated on water-free basis) | |
| FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable | VAPOR DENSITY (AIR = 1) < 1 | |
| AUTOIGNITION TEMPERATURE Not determined | EVAPORATION RATE (WATER = 1) < 1 | |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|--|--|
| STABILITY UNSTABLE: STABLE: X | CONDITIONS TO AVOID: Extreme temperatures. |
| INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids. | |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced. | |
| HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X | CONDITIONS TO AVOID: None |

SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Components | CAS # EINECS # | LD50 of Ingredient (Specify Species and Route) | LC50 of Ingredient (Specify Species) |
|--------------------------|------------------------|---|---|
| Ethylene glycol (a,b,c) | 107-21-1 203-473-3 | 4700 mg / kg Oral - rat | 10876 mg / kg Inhalation - rat |
| Zinc oxide (as zinc) (a) | 1314-13-2 215-222-5 | 7950 mg / kg Oral - mouse | 2500 mg / m3 Inhalation - mouse |
| | | | |
| | | | |
| | | | |
| | | | |
| (a,c) See Section 15 | | | |

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Product is classified as non - hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

| | |
|---|--|
| PROPER SHIPPING NAME: Non - Hazardous for Transport | IATA HAZARD CLASS / Packaging Group: Not regulated |
| DOT HAZARD CLASS / Packaging Group: Not regulated | IMDG HAZARD CLASS: Not regulated |
| REFERENCE: Not Applicable | RID / ADR Dangerous Goods Code: Not regulated |
| UN / NA IDENTIFICATION NUMBER: None | UN TDG Class / Packaging Group: Not regulated |
| LABEL: None Required | Hazard Identification Number (HIN): None |
| HAZARD SYMBOLS: None | |

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
 Immediate health

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: Not applicable

RISK PHRASES:

R20/22 Harmful by inhalation and if swallowed.

SYMBOL(S) REQUIRED FOR LABEL

Harmful



SAFETY PHRASES:

S2 Keep out of the reach of children.
 S24/25 Avoid contact with skin and eyes

SECTION 16 - OTHER INFORMATION

Notes & full R-Phrase text

R20/22 Harmful by inhalation and if swallowed.

HMIS HAZARD RATINGS

| | | | |
|-----------------|---|---------------------------|--------------|
| HEALTH | 1 | * = Chronic Health Hazard | 2 = MODERATE |
| FLAMMABILITY | 0 | 0 = INSIGNIFICANT | 3 = HIGH |
| PHYSICAL HAZARD | 0 | 1 = SLIGHT | 4 = EXTREME |

PERSONAL PROTECTIVE EQUIPMENT B Safety Glasses, Gloves

REVISION SUMMARY:

This MSDS has been revised in the following sections:
 Format update

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.