

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: ASTEC # 100**

PART NUMBER:

GENERAL USE: Protective coating

PRODUCT DESCRIPTION: White viscous liquid, slight vinegar odor



MANUFACTURER'S NAME

Insulating Coatings Corporation

DATE PREPARED: March 9, 2009

SUPERSEDES: November 18, 2000

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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

May be harmful if swallowed, absorbed through the skin or inhaled. Contact with eyes may cause irritation, prolonged contact with skin may cause irritation. Toxic to aquatic organisms. Hazard Symbols for this product - Xn, N, Risk Phrases - R 20/22, 50, 61, 62

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Inhalation of vapor or mist is harmful and irritating to respiratory tract.

**SKIN:** Contact with skin may cause irritation. Material is harmful if absorbed through the skin.

**EYES:** Contact with eyes may cause irritation.

**INGESTION:** Material is harmful if swallowed. May cause gastric distress, stomach pains, 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
Aluminum silicate (mineral dust)	5 - 10	12141-46-7	235-253-8	NC	Not classified
Barium metaborate (as barium) (a)	5 - 10	13701-59-2	237-222-4	Xn	R-20/22
Dibutyl phthalate (a,b,c,d)	1 - 5	84-74-2	201-557-4	T, N	R-61, 50, 62
Mica (mineral dust) (e)	5 - 10	12001-26-2	not found	NC	Not classified

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.

(d) Product is listed or defined as a marine pollutant in IMDG Code or 49 CFR 172.101 Appendix B, List of Marine Pollutants and must be classified as an Environmentally Hazardous Substance, Class 9, in addition to any other defined hazards for this product.

(e) Ingredients included in the Canadian Ingredient Disclosure List are one of the four categories of ingredients whose identity and concentration must be disclosed on an MSDS if found in a controlled product above the concentration cut-off.

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties 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; never give anything by mouth to an unconscious person; seek medical attention.

**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:** Confine and absorb into approved absorbent; place material into approved containers for disposal; for spills in excess of allowable quantities (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40 CFR 372 for reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

**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
Aluminum silicate (mineral dust)		15				10		
Barium metaborate (as barium) (a)		0.5				0.5		
Dibutyl phthalate (a,b,c,d)	--	5	--	--	--	5	--	--
Mica (mineral dust) (e)	--	3	--	--	--	3	--	--

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** NIOSH approved respirator designed to remove airborne particulate present in excess of maximum allowable concentrations due to secondary operations such as mixing, spraying, sanding, buffing, etc. Refer to 29 CFR 1910.134, ANSI Z88.2, or European Standard EN 149 for regulations.

**PROTECTIVE GLOVES:** Neoprene or nitrile rubber gloves.

**EYE PROTECTION:** Chemical splash goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, 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 vinegar odor	VAPOR PRESSURE 17 mm Hg @ 20° C	
pH 7.5 - 8.5	SPECIFIC GRAVITY (WATER = 1) 0.800 (air entrained)	
BOILING POINT / BOILING RANGE 212° F ( 100° C )	SOLUBILITY IN WATER Dispersible	VISCOSITY Not specified
FLASH POINT Non-flammable	VOLATILE ORGANIC COMPOUNDS (VOC's) 1.48 lbs / gallon (214 grams / liter) (calculated on water-free basis)	
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable	VAPOR DENSITY (AIR = 1) < 1	
AUTOIGNITION TEMPERATURE Not established	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
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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Aluminum silicate (mineral dust)	12141-46-7 235-253-8	Not established	Not established
Barium metaborate (as barium) (a)	13701-59-2 237-222-4	530 mg / kg Oral - rat	Not established
Dibutyl phthalate (a,b,c,d)	84-74-2 201-557-4	8000 mg / kg Oral - rat	4250 mg / m3 Inhalation - rat
Mica (mineral dust) (e)	12001-26-2 not found	> 15,000 mg / kg Oral - rat	Not established
(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. One of the ingredients in this mixture (Dibutyl phthalate) is classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not flush to sanitary sewer or waterway. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal 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 49 CFR 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. Hazard Class 9 must be used if shipping quantity exceeds RQ for this mixture.

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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)**

(b) 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 = 500 lbs) or greater amounts, according to 40 CFR 302.

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

There is a reportable chemical present (Dibutyl phthalate) 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: D2A

**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: 2**

**VbK Index: not applicable**

**RISK PHRASES:**

R20/22 Harmful by inhalation and if swallowed.

R50 Very toxic to aquatic organisms.

R60 May impair fertility.

R61 May cause harm to the unborn child.

**SYMBOL(S) REQUIRED FOR LABEL**

Harmful Environmental Hazard



**SAFETY PHRASES:**

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes.

S28 After contact with skin, wash immediately with plenty of soap and water.

S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

**SECTION 16 - OTHER INFORMATION**

**Notes & full R-Phrase text**

R20/22 Harmful by inhalation and if swallowed.

R50 Very toxic to aquatic organisms.

R60 May impair fertility.

R61 May cause harm to the unborn child.

**HMIS HAZARD RATINGS**

HEALTH

2\*

\* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

0

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

C

Safety Glasses, Gloves, Apron

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:

Format revision

**MSDS Prepared By:**

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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.