

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ASTEC B.C.S. # 4

**PART NUMBER:**

**GENERAL USE:** Protective coating

**PRODUCT DESCRIPTION:** Light gray viscous liquid, slight characteristic acrylic odor



**MANUFACTURER'S NAME**

Insulating Coatings Corporation

**DATE PREPARED:** July 30, 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

**WARNING!** May be harmful in inhaled. May cause irritation to skin, eyes, and respiratory tract. Hazard symbols for this product - Xn. Risk Phrases - R 20

### POTENTIAL HEALTH EFFECTS

**INHALATION:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

**SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis.

**EYES:** Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.

**INGESTION:** Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.

**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

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) See Section 15

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency 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; Induce vomiting by sticking fingers down throat; 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; refer to SARA Title III, Section 313, 40 CFR 372 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 |
| Zinc oxide (as zinc) (a) | --      | 5         | --       | 10         | --      | 10        | --       | 10         |

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene, butyl or nitrile rubber gloves with cuffs.

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

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby.

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                                                     |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|-----------------------------------------|
| <b>MATERIAL SAFETY DATA SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                     |                                         |
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| <b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                     |                                         |
| APPEARANCE AND ODOR<br>Light gray viscous liquid, slight characteristic acrylic odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | VAPOR PRESSURE<br>17 mm Hg @ 20° C                  |                                         |
| pH<br>9.0 - 9.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | SPECIFIC GRAVITY (WATER = 1)<br>1.220               |                                         |
| BOILING POINT / BOILING RANGE<br>212° F ( 100° C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        | SOLUBILITY IN WATER<br>Dispersible                  | VISCOSITY<br>Not specified              |
| FLASH POINT<br>Non-flammable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | VOLATILE ORGANIC COMPOUNDS (VOC's)<br>Not specified |                                         |
| FLAMMABLE LIMITS<br>LEL: Not applicable      UEL: Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | VAPOR DENSITY (AIR = 1)<br>< 1                      |                                         |
| AUTOIGNITION TEMPERATURE<br>Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | EVAPORATION RATE (WATER = 1)<br>< 1                 |                                         |
| <b>SECTION 10 - STABILITY AND REACTIVITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                     |                                         |
| STABILITY<br>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<br>MAY OCCUR:                      WILL NOT OCCUR: X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | CONDITIONS TO AVOID: None                           |                                         |
| <b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                     |                                         |
| Hazardous Components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CAS #<br>EINECS #      | LD50 of Ingredient<br>(Specify Species and Route)   | LC50 of Ingredient<br>(Specify Species) |
| Zinc oxide (as zinc) (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1314-13-2<br>215-222-5 | 7950 mg / kg<br>Oral - mouse                        | 2500 mg / m3<br>Inhalation - mouse      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                                                     |                                         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                                                     |                                         |
| (a) See Section 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                                                     |                                         |
| <b>SECTION 12 - ECOLOGICAL INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                                                     |                                         |
| 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.                                                                                                                                      |                        |                                                     |                                         |
| <b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                     |                                         |
| 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. |                        |                                                     |                                         |
| <b>SECTION 14 - TRANSPORT INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                     |                                         |
| PROPER SHIPPING NAME: Non - Hazardous for Transport<br>DOT HAZARD CLASS / Packaging Group: Not regulated      IATA HAZARD CLASS / Packaging Group: Not regulated<br>REFERENCE: Not Applicable      IMDG HAZARD CLASS: Not regulated<br>UN / NA IDENTIFICATION NUMBER: None      RID / ADR Dangerous Goods Code: Not regulated<br>LABEL: None Required      UN TDG Class / Packaging Group: Not regulated<br>HAZARD SYMBOLS: None      Hazard Identification Number (HIN): 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)

None

### 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 Harmful by inhalation.

### 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 Harmful by inhalation.

### 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

C

Safety Glasses, Gloves, Apron

### REVISION SUMMARY:

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

### MSDS Prepared By:

Comprehensive Data Base, Inc.

P.O. Box 686

Seffner, FL 33583 USA

(863) 644 - 3298 www.compdatabase.com or www.msds.cc

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.