



Material Safety Data Sheet

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: ASTEC 5000 HB

General Use: Protective coating

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Product Description: White viscous fluid, slight vinegar odor

Manufacturer's Name

Insulating Coatings Corporation

Date Prepared: July 25, 2013

Supersedes: March 9, 2008

Address (Number, Street, P.O. Box)

956 South Hwy 41

Telephone Number for Information

(800)345-5306

Address (City, State, and Zip Code)

Inverness, FL 34450

Country

USA

Emergency Telephone Number

ChemTel Inc. (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.

Potential Health Effects

Inhalation: None expected, however prolonged inhalation of vapor or mist is harmful and irritating to respiratory tract.

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

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?** Yes **OSHA Regulated?** No

IARC has assigned titanium dioxide to Group 2B. Substances assigned to the group are described as "possibly carcinogenic to humans." IARC also states that "evidence of carcinogenicity in humans is inadequate."

SECTION 3 – HAZARDOUS INGREDIENTS

Hazardous Components	% (by weight)	CAS #	EINECS #	OSHA PEL (mg/m ³) (Total/Respirable Dust)	ACGIH TLV (mg/m ³)
Copolymer resin	40-50	Proprietary	Proprietary	NA	NA
Titanium dioxide	5-10	13463-67-7	236-675-5	10/5	10 (as dust)
Calcined kaolin	5-10	92704-41-1	296-473-8	15/5	2*
Perlite, expanded	5-10	93763-70-3	Not listed	15/5	10 (as dust)
Nepheline Syenite	1-5	37244-96-5	270-666-7	15/5	10(as dust)
Ethylene glycol	< 1%	107-21-1	203-473-3	See Section 8	See Section 8
Dibutyl Phthalate (a)	< 1%	84-74-2	201-557-4	5/NA	5

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) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined that the waste for this chemical is 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; 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 spilled or released: 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 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

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.

Note: Ethylene glycol has an ACGIH recommended ceiling (TLV) of 100 mg/m³ (aerosol only). OSHA recommends a PEL ceiling of 50ppm.

Protective Gloves: Neoprene or nitrile rubber gloves

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 vinegar odor

pH

7.5 - 8.5

Boiling Range/Boiling Point

212° F (100° C)

Flash Point

Non-flammable

Flammable Limits

LEL: Not applicable UEL: Not applicable

Autoignition Temperature

Not determined

Vapor Pressure

17mm Hg @ 20° C

Specific Gravity (Water = 1)

0.800 (air entrained)

Solubility in Water

Dispersible

Viscosity

Not specified

Volatile Organic Compounds (VOC's)

143 g/l

Vapor Density (Air = 1)

< 1

Evaporation Rate (Water = 1)

< 1

SECTION 10 – STABILITY AND REACTIVITY

Stability

STABLE: (X)

UNSTABLE: ()

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 and Route)
Titanium dioxide	13463-67-7 236-675-5	Not established	6820mg/m ³ Inhalation - rat
Ethylene glycol	107-21-1 203-473-3	4700 mg/kg Oral - rat	Not established
Dibutyl phthalate	84-74-2 201-557-4	8000 mg/kg Oral - rat	4250 mg/mg ³ Inhalation - rat

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. Dibutyl phthalate is classified as a Marine Pollutant under 49 CFR Appendix B.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: 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

DOT HAZARD CLASS/Packaging Group:	Not regulated	IATA HAZARD CLASS/Packaging Group:	Not regulated
REFERENCE:	Not applicable	IMDG HAZARD CLASS:	Not regulated
UN/NA IDENTIFICATION NUMBER:	None	RID/ADR Dangerous Goods Code:	Not regulated
LABEL:	None required	UN TDG Class/Packaging Group:	Not regulated
HAZARD SYMBOLS:	None	Hazard Identification Number (HIN):	None

NOTE: Transportation information provided is for reference only. Client is urged to consult CFR49 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 US Toxic Substances Control Act chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Polymer Exemption has been granted in accordance with 40CFR 723.50.

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

311/312 Hazard Categories
Immediate Health

313 Reportable Ingredients
Ethylene glycol
Dibutyl phthalate

CERCLA (USA – Comprehensive Response and Liability Act)

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 > 1,250 lbs) or greater amounts, according to 40 CFR 302.

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

Dibutyl Phthalate (CAS: 84-74-2) is known to the State of California as a reproductive toxin.

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 Commercial Chemical Substances.

WGK Water Quality Index: 2

VbK Index: Not applicable

SECTION 16 – OTHER INFORMATION

HMIS Hazard Ratings	HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
	FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
	PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME
	PHYSICAL PROTECTIVE EQUIPMENT	C	Safety Glasses, Gloves, Apron	

Revision Statement

This MSDS has been reformatted.

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.