

MATERIAL SAFETY DATA SHEET

SECTION I – Manufacturer Identification

PRODUCT NAME: Tough Coat All Purpose HVAC Coating - Black

HMIS Codes: H F R P

1 0 0 B

MANUFACTURED by: Design Polymerics, 11609 Martens River Circle, Fountain Valley Ca 92708

Revision Date: April 2, 2013, **Revision:** 6.2 Supersedes all previous

EMERGENCY PHONE: Chem-Tel (800) 255-3924 (24 hrs)

DISTRIBUTOR: Vac Systems International, 11950 Riverwood Drive, Burnsville, MN 55337

SECTION II – Hazardous Ingredients/SARA III Information

Reportable Components	CAS Number	Vapor Pressure mm Hg @ Temp		Weight Percent
* Barium Metaborate Monohydrate	13701-59-2	N/A	N/A	5-10%

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

SECTION III – Physical/Chemical Characteristics

PHYSICAL FORM: Mobile Liquid

ODOR: Mild, sweet

SOLUBILITY IN WATER: Miscible

BOILING POINT: 100°C/212°F

FREEZING POINT: 32°C/0°F

COATING V.O.C.: 2 g/l

COLOR: Black

pH: 8.0 – 9.5

SPECIFIC GRAVITY: 1.2 – 1.3

% VOLATILES BY WEIGHT: 30-50 (water)

VISCOSITY (cps): approx. 3,000 – 6,500

SECTION IV – Fire and Explosion Hazard Data

FLASH POINT: Not Applicable

METHOD USED: Not Applicable

FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER: N/A

UPPER: N/A

EXTINGUISHING MEDIA: The product will only burn after the water it contains is driven off. For dried film use water, foam, carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: When dried polymer burns, carbon dioxide, carbon monoxide and smoke are produced. Firefighters should wear self-contained breathing apparatus, especially in closed areas. Cool containers and minimize vapors with water spray.

UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Closed containers exposed to high temperatures may explode or burst due to build-up of steam pressure.

SECTION V – Reactivity Data

STABILITY: Stable at ambient Temperatures.

CONDITIONS TO AVOID: Coagulation may occur after freezing, thawing or boiling.

INCOMPATIBILITY (MATERIALS TO AVOID): Metal salts, mineral acids (i.e. sulfuric, phosphoric, etc). Strong oxidizing agents. Strong reducing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials on thermal decomposition including Carbon monoxide, Carbon dioxide and various hydrocarbons. Contact with strongly acidic aqueous systems can release solubilized barium salts, which are highly toxic.

SECTION VI – Health Hazard Data

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Adverse health effects from vapors or spray mist in poorly ventilated areas may include irritation of the mucous membrane of the nose, throat, and respiratory tract and symptoms of headache and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: EYES: In direct contact, may cause irritation. **SKIN:** Prolonged and repeated contact with product may cause skin irritation.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC): ACUTE: May cause irritation to skin and eyes, gastrointestinal irritation, nausea and vomiting. **CHRONIC:** Prolonged or repeated exposure above TLV may result in permanent brain and nervous system damage.

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May be aggravating to some skin and respiratory conditions, and to pre-existing liver and/or kidney disorders.

SECTION VII – Precautions For Safe Handling And Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike, contain, or absorb with inert absorbent material. Prevent spill from entering sewers, drains, streams, waterways or other bodies of water.

WASTE DISPOSAL METHOD: Dispose or in accordance with federal, state, and local laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT ALLOW TO FREEZE. Store in a cool dry location away from heat. Keep containers tightly closed and stored with adequate ventilation.

OTHER PRECAUTIONS: DO NOT TAKE INTERNALLY. Avoid unnecessary, prolonged, or repeated contact with this and any other chemical. **KEEP OUT OF REACH OF CHILDREN.**

SECTION VIII – Control Measures

RESPIRATORY PROTECTION: Not required under normal conditions. Provide sufficient ventilation to maintain constant fresh air in workspace. If TLV is exceeded, use NIOSH/MSHA approved organic vapor and mist, supplied air or self-contained breathing apparatus. Avoid breathing sanding dust.

VENTILATION: Use adequate mechanical (general and/or local) ventilation to maintain exposure below TLV.

SKIN PROTECTION (PROTECTIVE GLOVES): Wear resistant gloves such as polyethylene.

EYE PROTECTION: Use chemical splash goggles or OSHA permitted safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear impervious clothing. Eye wash station.

WORK/HYGENIC PRACTICES: Source of clean water should be available for flushing eyes and washing skin. Wash thoroughly after handling any chemicals, especially before eating, drinking or smoking. Remove and launder contaminated clothing before reuse.

SECTION IX – Regulatory Information

WORKPLACE CLASSIFICATIONS: This product is considered non-hazardous under OSHA Hazard Communication Standard 29 CFR 1920.1200. This material is not a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS).

TRANSPORTATION CLASSIFICATION: U.S. DOT HAZARD CLASS: Non-Regulated.

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW (SARA TITLEIII):

Section 302 Categorizations – Extremely Hazardous Substances List: No components of this product listed.

Section 311/312 Categorization (40 CFR 370): Immediate (Acute Health Hazard).

Section 313 Information (40 CFR 372) – Toxic Chemicals List: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR 371:

Component	CAS#	% by Weight
Barium metaborate monohydrate	13701-59-2	5 – 10%

TOXIC SUBSTANCES Control ACT (TSCA): All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements.

CERCLA INFORMATION (40 cfr 302.4): Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA III) Title III Section 304.

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act 1986): This product may contain trace amounts of chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

SECTION X – Disclaimer

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