



MATERIAL SAFETY DATA SHEET

Last Update: October, 2009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Emergency Phone: CHEMTREC **800-424-9300** ANSI 2400.1 Format

Product Name: HeatBloc-75 Part B
Item Number: HB-75 B
Chemical Name: N.A.
Comparable Products: Radiance e 0.25 Attic Barrier Part B
Company Information: STS Coatings, Inc.
347 Hwy 289
Comfort, TX 78013
Ph. 830-995-5177 Fax 830-995-5705

Prepared by: Cayce Kovacs

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
Aluminum Powder	7429-90-5	10 mb/m3	N.E.	15 mg/m3	N.E.	60.00 – 100.00%
Diacetone Alcohol	123-42-2	50 ppm	N.E.	50 ppm	N.E.	15.00 – 40.00%
Stearic Acid	57-11-4	10 mg/m3	N.E.	N.E.	N.E.	1.00 – 5.00%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HMIG	
Health	1
Flammability	2
Reactivity	0
Protective Equipment	B

WHMIS Class B3, D2B

POTENTIAL HEALTH EFFECTS:

Likely routes of exposure: Skin contact, inhalation, ingestion

INHALATION: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness.

INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called “sniffing”) can be harmful or fatal.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
Aluminum Powder	N.E.	N.E.	N.E.	N.E.
Diacetone Alcohol	N.E.	N.E.	N.E.	N.E.
Stearic Acid	Not classifiable as a human carcinogen	N.E.	N.E.	N.E.



4. FIRST AID MEASURES

- IF IN EYES: Immediately flush with large amounts of potable water for 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention.
- IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.
- IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
- IF INGESTED: **DO NOT** induce vomiting – aspiration hazard. Give victim plenty of water. Never give anything to an unconscious person. If spontaneous vomiting occurs, be sure to keep victim's head below hips to avoid aspiration of vomit into lungs, monitor for breathing difficulty. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

- FLASH POINT: 147.00 °F (63.89°C)
- LOWER EXPLOSIVE LIMIT: N.D.
- UPPER EXPLOSIVE LIMIT: N.D.
- AUTOIGNITION TEMPERATURE: N.D.
- EXTINGUISHING MEDIA: dry chemical foam, water fog
- FIRE AND EXPLOSION HAZARDS: Combustible liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT PRESSUREIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.** Solid stream of water or foam can cause frothing.
- SPECIAL FIREFIGHTING PROCEDURES: At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled liquid. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches, which lead to waterways. Dispose of container according to local/national regulations.

7. HANDLING AND STORAGE

HANDLING: Use only in area provided with appropriate ventilation. Keep out of reach of children. Take precautionary measures against static discharges. Ground and bound containers when transferring material.

STORAGE: Keep container tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.



RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection and respirators when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

HYGENIC PRACTICES: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	grey paste	FREEZE POINT:	N.D.
ODOR:	alcoholic	VAPOR PRESSURE:	N.D.
PH @ 100.0%:	N.D.	VISCOSITY:	N.D.
BOILING RANGE:	N.D.	ODOR THRESHOLD:	N.D.
VAPOR DENSITY:	N.D.	SPECIFIC GRAVITY:	1.73
SOLUBILITY IN WATER:	insoluble		
PARTITION COEFFICIENT (n-octanol/water):	N.D.		
EVAPORATION RATE:	Is slower than Butyl Acetate		
VOC CONCENTRATION AS APPLIED			

(less water and exempt solvents): 418 G/L

note: VOC concentration expressed as applied when all components part A and B are mixed and applied per manufacturer's instructions.

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under recommended storage conditions.

CONDITIONS TO AVOID: Heat, flames and sparks. Prolonged exposure to high temperatures.

MATERIALS TO AVOID: alkalis, oxidizing agents, reducing agents, acids

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Aluminum Powder	LC50	no data available
Diacetone Alcohol	LC50	no data available
Stearic Acid	LC50	no data available

Acute oral toxicity

Aluminum Powder	LC50	no data available
Diacetone Alcohol	LC50	1,673 mg/kg
Stearic Acid	LC50	no data available

Acute dermal toxicity

Aluminum Powder	LC50	no data available
Diacetone Alcohol	LC50	1,280 mg/kg
Stearic Acid	LC50	no data available

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No Information.

13. DISPOSAL CONSIDERATIONS

The transportation, storage, treatment and disposal of this waste must be conducted in accordance with all applicable federal, state and local regulations.



14. TRANSPORT INFORMATION

DOT: PROPER SHIPPING NAME: Not regulated
IATA: PROPER SHIPPING NAME: Not regulated

15. REGULATORY INFORMATION

SARA SECTION 313:

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 Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
60.00 – 100.00%	7429-90-5	Aluminum Powder

SARA 311-312 (RTK)

This product has been reviewed according to EPA 'Hazard Categories' promulgated under Sections 311 and 312 Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS NO.</u>	<u>Chemical Name</u>
123-42-2	Diacetone Alcohol

CA Proposition 65:

Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

There are no Proposition 65 chemicals known to exist in this product.

16. OTHER INFORMATION

Legend:

N.E. – Not Established

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

PEL – Permissible Exposure Limit

CEIL - Ceiling

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the Manufacturer's knowledge, or is obtained from sources believed by the Manufacturer to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The Manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally the Manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

For Other Product Information Contact:

STS Material Safety Data Sheet

Material: HeatBloc-75

Item No.: HB-75 part B

¹ Hazard Ratings: least = 0 slight = 1 moderate = 2 high = 3 extreme = 4 Based upon NPCA guidelines



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