

# VAC SYSTEMS INTERNATIONAL

Material Safety  
Date Sheet

Tough Coat Mechanical Insulation Repair Coating  
MSDS No. 1011-07

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Tough Coat Mechanical Insulation Repair Coating  
**Generic Name:** Coatings (Acrylic)  
**Chemical Name:** Acrylic emulsion

**CAS#:** Mixture/None Assigned  
**Formula:** Mixture  
**Hazard Label:** SS-001

**Manufacturer:** Vac Systems International  
**Address:** 1800 East Cliff Road, #11  
Burnsville, MN 55337

**Telephone:** 952-808-1616  
**Emergency:** 1-800-424-9300  
**Internet Address:** www.vacsysint.com

**Trade Names:** Tough Coat

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Percent
Not Available	Acrylic emulsion	80-90
1163-19-5	Decabromodiphenyl oxide	1-10
1309-64-4	Antimony trioxide	1-5
7664-41-7	Ammonia	<0.5

### Additional Component Information

Ammonia is used to adjust pH.

## SECTION 3: HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

**APPEARANCE AND ODOR:** Black or white water dispersion with slight ammonia odor.

Under normal conditions of use, this product is not expected to create any unusual emergency hazards.

### Potential Health Effects

#### Summary:

Due to the form of the product, hazardous exposures are unlikely to occur. Exposure may cause slight temporary irritation to skin, eyes, nose, or throat.

#### Inhalation:

Temporary irritation of the nose and throat may occur.

#### Skin:

Temporary irritation (itching) or redness may occur.

#### Absorption:

Not applicable.

#### Ingestion:

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, it may cause nausea and systemic poisoning.

#### Eyes:

Temporary irritation (itching) or redness may occur.

#### Target Organs:

Upper respiratory passages, skin and eyes.

#### Primary routes of entry (exposure):

Inhalation, skin and eye contact.

#### Medical conditions which may be aggravated by exposure:

None identified.

**SECTION 4: FIRST AID MEASURES**

**First Aid: Inhalation**

Remove to fresh air. If symptoms persist, contact a physician.

**First Aid: Skin**

Remove contaminated clothing. Wash exposed skin with soap and cold water. Launder contaminated clothing before reusing.

**First Aid: Ingestion**

This product is not intended to be ingested or eaten. If this product is ingested, do not induce vomiting. Drink plenty of water. Contact a physician immediately.

**First Aid: Eyes**

Flush eyes with large amounts of water for 5-20 minutes. Contact a medical professional.

**First Aid: Notes to Physician**

Treat symptomatically. Emesis may be indicated in recent (within 30 minutes) ingestion of large quantities.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** Nonflammable

**Upper Flammable Limit (UFL):** Not applicable

**Auto Ignition:** Not determined

**Rate of Burning:** Not determined

**General Fire Hazards:**

There is no potential for spontaneous fire or explosion.

**Extinguishing Media:**

NA

**Fire Fighting Equipment/Instructions:**

Product as supplied is water based and will not burn.

**Method Used:** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Flammability Classification:** Not determined

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Containment Procedures:**

Dam, mop, absorb onto sawdust and place into a suitable container. Prevent entry of material into sewers or other water sources. Material causes permanent stains.

**Clean-Up Procedures:**

No additional information available.

**SECTION 7: HANDLING AND STORAGE**

**Handling Procedures:**

Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material. Store at temperatures between 4°-35°C/40°-95°F.

**Storage Procedures:**

Do not freeze.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

**A. General Product Information**

No information available for the product.

**B. Component Exposure Limits**

**Ammonia (7664-41-7)**

ACGIH: 25 ppmTWA

35 ppm STEL

OSHA: 35 ppm STEL; 27 mg/m3 STEL

## PERSONAL PROTECTIVE EQUIPMENT

### Personal Protective Equipment: Eyes/Face

Safety glasses with side shields, chemical goggles, or face mask recommended.

### Personal Protective Equipment: Skin

Use impervious gloves.

### Personal Protective Equipment: Respiratory

Respiratory protection is not required if mechanical or dilution ventilation is sufficient to keep the exposure levels below the applicable exposure limits.

### Ventilation:

Local exhaust or general dilution ventilation should be provided to keep exposure levels below the applicable exposure limits.

### Personal Protective Equipment: General

An apron or coveralls impervious to chemicals can be used to protect clothing. Wash exposed skin after contact, before breaks and meals, and at end of work period.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Black or white water dispersion (liquid)	<b>Odor:</b> Slight ammonia odor
<b>Physical State:</b> Liquid	<b>pH:</b> 8-11
<b>Vapor Pressure:</b> 17 mm Hg (approximate)	<b>Vapor Density:</b> Not applicable
<b>Boiling Point:</b> 100°C/212°F	<b>Specific Gravity:</b> Not determined
<b>Solubility (H2O):</b> Dispersible	<b>Evaporation Rate:</b> Same as water
<b>Freezing Point:</b> Not determined	<b>Percent Volatile:</b> 25-32%
<b>Bulk Density:</b> 10.0-13.0 lbs/gallon @77 degrees F	
<b>VOC:</b> 1.198 g/L	

## SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

**Chemical Stability:** This is a stable material.

**Chemical Stability: Conditions to Avoid:** Keep away from excess heat. Do not freeze.

**Incompatibility:** Cationic chemicals and mineral acids.

**Hazardous Decomposition:** Dried films forced to burn will produce carbon monoxide, carbon dioxide, smoke, antimony halides, and hydrogen bromide.

**Hazardous Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### A. General Product Information

Skin, eye and upper respiratory irritation may occur after contact with product.

#### B. Component Analysis – LD50/LC50

##### Decabromodiphenyl oxide (1163-19-5)

Inhalation LC50 Rat: >48,2 mg/L/1H; Oral LD50 Rat: > 2000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

##### Antimony trioxide (1309-64-4)

Oral LD50 Rat: >34600 mg/kg

##### Ammonia (7664-41-7)

Inhalation LC50 Rat: 5.1 mg/L/1H; Inhalation LC50 Rat: 2000 ppm/4H; Oral LD50 Rat: 350 mg/kg

### Carcinogenicity

#### A. General Product Information

According to the International Agency for Research on Cancer (IARC), Monograph, Volume 47, antimony trioxide is classified as a Group 2B chemical agent; possibly carcinogenic to humans. The Monograph states that benign and malignant lung tumors have been seen in rats exposed to concentrations of antimony trioxide of 4.2 and 45 mg/m<sup>3</sup>. No lung tumors were reported in rats exposed to 1.6 mg/m<sup>3</sup>. However, there is inadequate evidence of the carcinogenicity of the antimony trioxide in humans.

#### B. Component Carcinogenicity

##### Decabromodiphenyl oxide (1163-19-5)

IARC: Group 3 – Not Classifiable (IARC Monograph 71, 1999; Monograph 48, 1990)

##### Antimony trioxide (1309-64-4)

ACGIH: A2-suspected human carcinogen (production)

IARC: Group 2B - possibly carcinogenic to humans (IARC Monograph 47, 1989)

Chronic Toxicity : None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:**

**A. General Product Information**

No additional information available.

**B. Component Analysis – Ecotoxicity – Aquatic Toxicity**

**Antimony trioxide (1309-64-4)**

96 Hr LC50 fathead minnow: 833.0 mg/L; 96 Hr LC50 bluegill: 530 mg/L.

**Ammonia (7664-41-7)**

5 min EC50 Photobacterium phosphoreum: 2.0 mg/L (15 degrees C)

**SECTION 13: DISPOSAL CONSIDERATIONS**

**US EPA Waste Number & Descriptions**

**Component Waste Numbers**

No EPA Waste Numbers are applicable for this product’s components.

**Disposal Instructions**

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

**Shipping Name:** This product is not classified a hazardous material for transport.

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

**A. General Product Information**

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

**B. Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

**Decabromodiphenyl oxide (1163-19-5)**

SARA 313: 1.0 percent de minimis concentration

**Antimony trioxide (1309-64-4)**

CERCLA: 1000 lb final RQ; 454 kg final RQ

**Ammonia (7664-41-7)**

SARA 302: 500 lb TPQ

CERCLA: 100 lb final RQ; 45.4 kg final RQ

**State Regulations:**

**A. General Product Information**

Other state regulations may apply. Check individual state requirements.

**B. Component Analysis – State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Decabromodiphenyl oxide	1163-19-5	No	No	Yes	Yes	Yes	Yes
Antimony trioxide	1309-64-4	Yes	No	Yes	Yes	Yes	Yes
Ammonia	7664-41-7	Yes	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): **WARNING!** This product contains a chemical known to the state of California to cause cancer.

**Antimony trioxide** CAS# 1309-64-4

**Other Regulatory Information**

**A. General Product Information**

No information available for the product.

**B. TSCA Status**

This product and its components are listed on the TSCA 8(b) inventory.

The following components listed in this product are listed on the TSCA Export Notification 12(b) list.

<b>Component</b>	<b>CAS #</b>	<b>TSCA 12 (b)</b>
Decabromodiphenyl oxide	1163-19-5	Yes

**C. Component Analysis – Inventory**

<b>Component</b>	<b>CAS #</b>	<b>TSCA</b>	<b>DSL</b>	<b>EINECS</b>
Decabromodiphenyl oxide	1163-19-5	Yes	Yes	Yes
Antimony trioxide	1309-64-4	Yes	Yes	Yes
Ammonia	7664-41-7	Yes	Yes	Yes

**Component Analysis – WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<b>Component</b>	<b>CAS #</b>	
Antimony trioxide	1309-64-4	1%

<b>SECTION 16: OTHER INFORMATION</b>
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**Other Information:**

Prepared for and by:  
Vac Systems International  
1800 E. Cliff Road, #11  
Burnsville, MN 55337

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

<u>Date</u>	<u>MSDS No.</u>	<u>Reason</u>
August 1, 2000	1011-05	New MSDS authoring system.
October 14, 2002	1011-06	Update Sect 15 for TSCA 12B: Tetrahydrofuran has been delisted.
November 30, 2005	1011-07	Section 15, TSCA 12b, add decabromodiphenyl oxide; Updated Section 15, State data, Antimony Trioxide and Ammonia. Minor edits throughout MSDS. VOC data entered in Section 9. Regulatory update. Minor edits in Section 11 LD50 and Section 15 WHMIS.

**-- END OF MSDS 1011-06 --**