

Section 1 - Product and Company Identification**Product Name****Generic Name****Formula****Chemical Name:****Hazard Label** CAUTION**Company Information**

Johns Manville

Insulation Systems

P.O. Box 5108

Denver, CO 80127 USA

Telephone: 303-978-2000 8:00AM-5:00PM M-F

Internet Address: <http://www.jm.com>

Emergency: 800-424-9300 (Chemtrec, In English)

Trade Names: Superseal® Edge Treatment; Superseal® HV**Section 2 - Hazards Identification****Inhalation**

Not expected under normal conditions of use. However, irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

Skin

Temporary irritation (itching) or redness may occur.

Ingestion

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, seek medical attention.

Eyes

Temporary irritation (itching) or redness may occur.

Primary Routes of Entry (Exposure)

Inhalation, skin, and eye contact.

Target Organs

Nose (nasal passages), throat, lungs, skin, eyes

Section 3 - 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*

Component Information

* Ammonia is used to adjust the pH.

General Product Description

SuperSeal Edge Treatment is a black water dispersion with slight ammonia odor.

SuperSeal HV is a black paste with slight ammonia odor.

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 areas with soap and water. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.

First Aid: Ingestion

Product is not intended to be ingested or eaten. If this product is ingested, do not induce vomiting and seek medical attention immediately.

First Aid: Eyes

Flush eyes with large amounts of water until irritation subsides. If irritation persists, seek medical attention.

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 MediaCarbon dioxide (CO₂), water, water fog, dry chemical.**Fire Fighting Equipment/Instructions**

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

Method Used: Not applicable**Lower Flammable Limit (LFL):** Not applicable**Flammability Classification:** Not determined**Section 6 - Accidental Release Measures****Containment Procedures**

Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth, or other suitable absorbent. Prevent entry of material into sewers, other water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposures below the applicable exposure limit. Shovel absorbed material into containers in well-ventilated area.

Clean-Up Procedures

Place in closable container for disposal.

Section 7 - Handling and Storage**Handling Procedures**

Use protective equipment as described in Section 8 of this safety data sheet when handling uncontained material. Handle in accordance with good industrial hygiene and safety practices.

Storage Procedures

Warehouse storage should be in accordance with package directions, if any. Product should be kept in a cool and dry area in original packaging. Do not freeze.

Section 8 - Exposure Controls / Personal Protection**A: Component Exposure Limits****Ammonia (7664-41-7)**

ACGIH: 25 ppm TWA

35 ppm STEL

OSHA: 35 ppm STEL; 27 mg/m³ STEL**PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields or chemical goggles are recommended.

Personal Protective Equipment: Skin

Impervious gloves such as nitrile rubber should be used to help prevent excessive skin contact.

Personal Protective Equipment: Respiratory

A NIOSH approved respirator must be used if vapor concentrations exceed exposure limits.

Ventilation

Local exhaust or general dilution ventilation may be required to maintain exposures below the applicable exposure limits. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Personal Protective Equipment: General

Protective equipment should be provided as necessary to prevent irritation of the throat, eyes, and skin, and to keep exposures below the applicable exposure limits identified in Section 8.

Section 9 - Physical & Chemical Properties

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

Section 10 - Stability & Reactivity Information

Stability

These products are not reactive.

Hazardous Decomposition

May form carbon dioxide, carbon monoxide, halogenated hydrocarbons, nitrogen oxides, various hydrocarbons.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute Toxicity

A: General Product Information

Vapors from this product may cause eye, respiratory and skin irritation,

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

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])

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

No additional information available.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Decabromodiphenyl oxide (1163-19-5)

72 Hr EC50 *Skeletonema costatum*: >1 mg/L

Antimony trioxide (1309-64-4)

96 Hr LC50 *Pimephales promelas*: 833.0 mg/L; 96 Hr LC50 *Lepomis macrochirus*: 530 mg/L; 96 Hr LC50 *Brachydanio rerio*: >1000 mg/L [static]

72 Hr EC50 *Selenastrum capricornutum*: 67 mg/L

7 Hr EC50 *Pseudomonas putida*: >3.5 mg/L

48 Hr EC50 *Daphnia magna*: >1000 mg/L

Ammonia (7664-41-7)

96 Hr LC50 Cyprinus carpio: 1.1 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.26-4.6 mg/L; 96 Hr LC50 Pimephales promelas: 0.73-2.35 mg/L; 96 Hr LC50 Poecilia reticulata: >1.5 mg/L
5 min EC50 Photobacterium phosphoreum: 2.0 mg/L (15 °C)
48 Hr EC50 Daphnia magna: 25.4 mg/L

Section 13 - Disposal Considerations**US EPA Waste Number & Descriptions****A: General Product Information**

This product is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Product characterization after use is recommended to ensure proper disposal under federal and/or state requirements.

B: 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 - Transport Information**International Transport Regulations**

These products are not classified as dangerous goods according to international transport regulations.

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 % 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.

A: 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.

TSCA 12(b)

Component	CAS	TSCA 12 (b)
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Decabromodiphenyl oxide	1163-19-5	Yes
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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
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:

Component	CAS #	Minimum Concentration
Antimony trioxide	1309-64-4	1 %

WHMIS Classification

Controlled Product Classification: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. This SDS contains all the information required by the Controlled Products Regulations.

Section 16 - Other Information**Other Information**

Prepared for:
Johns Manville
Insulation Systems
P. O. Box 5108
Denver, CO USA 80217-5108

Prepared by:
Johns Manville Technical Center
P.O. Box 625005
Littleton, CO USA 80162-5005

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.

Date	MSDS #	Reason
08/01/00	2014-1.0000	New MSDS authoring system.
10/14/02	2014-1.0100	Update Sect. 15 for TSCA 12B: Tetrahydrofuran has been delisted.
10/22/03	2014-1.0101	Section 15, TSCA 12b, add decabromodiphenyl oxide; Update Section 15, State data, Antimony Trioxide and Ammonia.
02/09/05	2014-1.0102	Minor edits throughout MSDS. VOC data entered in section 9.
11/30/05	2014-1.0202	Regulatory update. Minor edits in Section 11 LD50 and Section 15 WHMIS.
01/15/07	2014-1.0203	Minor edits throughout.
02/24/10	2014-1.0204	Regulatory update. Updated SDS to GHS format.

End of Sheet 2014