

**Section 1 - Product and Company Identification****Hazard Label** CAUTION**Company Information**Johns Manville  
Insulation Systems  
P.O. Box 5108  
Denver, CO 80127 USATelephone: 303-978-2000 8:00AM-5:00PM M-F  
Internet Address: <http://www.jm.com>  
Emergency: 800-424-9300 (Chemtrec, In English)**Trade Names:** LAWX-235D Adhesive; LAWX-235 Adhesive**Section 2 - Hazards Identification****Inhalation**

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 (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

**Eyes**

Temporary irritation (itching) or redness may occur.

**Medical Conditions Aggravated by Exposure**

Pre-existing chronic respiratory, skin, or eye diseases or conditions.

**Section 3 - Composition/Information on Ingredients**

CAS #	Component	Percent
7732-18-5	Water	25-45
Not Available	Ethylene Vinyl Acetate Co-Polymer	20-45
21645-51-2	Aluminum Trihydrate	5-15
Not Available	Dispersant	<5
Not Available	Flame retardant	5-15
Not Available	Proprietary non-halogenated, non-antimony flame retardant	5-15

**Component Information****General Product Description**

White liquid; mild, sweet 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:** Not applicable**Upper Flammable Limit (UFL):** Not applicable**Auto Ignition:** None known**Rate of Burning:** Not determined**General Fire Hazards**

There is no potential for spontaneous fire or explosion.

**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. Material should be kept clean and in original packaging.

**Section 8 - Exposure Controls / Personal Protection****A: Component Exposure Limits****PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields, chemical goggles, or a face shield is required.

**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**

<b>Appearance:</b>	White	<b>Odor:</b>	Mild, sweet
<b>Physical State:</b>	Liquid	<b>pH:</b>	4.5-5.5
<b>Vapor Pressure:</b>	17.5 mm Hg (20°C/68°F)	<b>Vapor Density:</b>	1 (20°C/68°F)
<b>Boiling Point:</b>	100°C/212°F	<b>Melting Point:</b>	Not applicable
<b>Solubility (H<sub>2</sub>O):</b>	>60%	<b>Specific Gravity:</b>	1.2
<b>Freezing Point:</b>	Not determined	<b>Evaporation Rate:</b>	Same as water
<b>Viscosity:</b>	800-2000 cps	<b>Percent Volatile:</b>	39%
<b>VOC:</b>	Not determined		

**Section 10 - Stability & Reactivity Information****Stability**

These products are not reactive.

**Stability: Conditions to Avoid**

Keep away from ignition sources. Do not freeze. Do not thin.

**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****Water (7732-18-5)**

Oral LD50 Rat: >90 mL/kg

**Aluminum Trihydrate (21645-51-2)**

Oral LD50 Rat: >5000 mg/kg

**Section 12 - Ecological Information****Ecotoxicity****A: General Product Information**

No data available for this product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity****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****State Regulations****A: General Product Information**

Other state regulations may apply. Check individual state requirements.

**B: Component Analysis - State****A: TSCA Status**

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

**B: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
Aluminum Trihydrate	21645-51-2	Yes	Yes	Yes

**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	2054-1.0000	New MSDS authoring system.
07/03/03	2054-1.0001 & 2	Routine review and update.
11/26/03	2054-1.0003	Section 16 division change from RID to BID
08/31/04	2054-1.0004	Sect. 1 label ID update from LIQ-01 to L2054LAWX. Sect. 2 composition update for new fire retardant.
12/30/05	2054-1.0004	Regulatory update. Minor edits in Section 11 LD50 and Section 15 WHMIS.
08/02/06	2054-1.0005	Changed Material Name from LAWX Adhesive to LAWX 235 Adhesive.
09/13/06	2054-1.0006	Adjusted ATH ingredient name.
10/19/09	2054-1.0007	Regulatory update. Updated SDS to GHS format.
04/14/14	2054-1.0008	Updated Composition list; review

End of Sheet 2054