

Material Safety Data Sheet

**Accumetric LLC
350 Ring Road
Elizabethtown, KY 42701**

**270-769-3385 – Phone
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BOSS® 342 Urethane Adhesive

Section 1. Chemical Product and Company Identification

Product Name: BOSS® 342 Urethane Adhesive
Chemical Family: Polyurethane Adhesive/Sealant

Company: Accumetric LLC
350 Ring Road
Elizabethtown, KY 42701

Emergency Response Numbers: In case of emergency, call:
CHEMTREC: 800-424-9300
Information: 270-769-3385

Section 2. Components and Hazard Information

<u>Component</u>	<u>CAS Number</u>	<u>Wt Percent*</u>	<u>OEL**</u>	<u>OSHA PEL</u>
Isophorone Diisocyanate (IPDI)	4098-71-9	< 3%	0.005 ppm	Not Listed
Xylene	1330-20-7	5 to 10%	100 ppm	100 ppm

* If the total percentage is less than 100, the balance of this product is not considered to be hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

** The recommended Occupational Exposure Limit (OEL) value represents the lower of the US OSHA PEL, ACGIH TLV, or Manufacturer's Recommended Limit.

N/A = Not Available, N/D = Not Determined

Section. 3. Hazards Identification

Potential Health Considerations

HMIS Hazard Ratings

Health: 2
Flammability: 2
Reactivity: 0
Protection: G

Note: Numeric Hazard Ratings are intended only to indicate the relative hazard of the product. Users must read and understand the entire Material Safety Data Sheet prior to use of this product.

Canadian Workplace Hazardous Materials Information System (WHMIS) Class:

B3 – Combustible Liquid
D2B – Other Toxic Effects, Skin and Eye Irritant
D2B – Other Toxic Effects, Skin Sensitization

Likely Routes of Entry:

Contact, Inhalation.

Target Organs:

Skin, Eyes, Lungs.

Potential Immediate Effects from Overexposure:

Contact, Skin and Eye:

Ingredient may cause eye irritation, a rash or reddening on contact. May cause allergic reaction, skin sensitization and/or dermatitis.

Skin Absorption:

Absorption of excessive amounts of solvents may lead to headaches, dizziness or other systemic effects.

Inhalation:

Hazardous if inhaled. Inhalation may lead to systemic and local effects such as irritation of throat and mucous membranes, dizziness, headaches and respiratory sensitization.

Ingestion:

Toxic when ingested. Causes gastrointestinal discomfort and vomiting.

Symptoms of Overexposure:

Irritation, headache, dizziness, giddiness, lightheadedness, drowsiness, lethargy, breathing difficulty, chest pain, coughing, dry skin, abdominal pain, cramps, nausea, vomiting.

Potential Long-Term Effects From Overexposure:

Cancer Information:

None of the ingredients in this product exceeding 0.1% are on the IARC, NTP or OSHA lists of carcinogenic hazards.

Chronic Effects:

Long-term overexposure to the hazardous materials in this product may lead to headaches, loss of appetite, memory and concentration problems, low blood cell count, eye damage, nausea, liver and kidney damage, dryness and cracking of skin and sensitization. Some solvents have been shown to cause hazardous reproductive effects.

Medical Conditions Aggravated by Exposure:

Asthma and dermatitis. Previously sensitized individuals may have an allergic reaction.

Notes to MD and Other Health Related Information:

Treat symptomatically and supportively. Contact Accumetric to learn if any additional information is available.

Section 4. First Aid Measures

Contact, Skin and Eye:

Eyes:

IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids. Seek medical attention.

Skin:

Quickly remove contaminated clothing. Immediately wash contaminated skin with large amounts of soap and water. Seek medical attention if irritation or rash or other symptoms develop.

Inhalation:

Remove victim to fresh air. Begin rescue breathing if breathing has stopped. Transfer to a medical facility.

Ingestion:

DO NOT INDUCE VOMITING. IMMEDIATELY call a hospital or poison control center. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical. If the victim is convulsing or unconscious, DO NOT give anything by mouth, ensure that the victim's airway is open and lay victim on his/her side with the head lower than the body. Seek medical attention.

Section 5. Fire Fighting Measures

Flammability Data:

Flash Point Deg F: 125
 Deg C: 62
Lower Explosive Limit %: N/A
Upper Explosive Limit %: N/A
Autoignition Point Deg F: N/A
 Deg C: N/A

Fire and Explosion Hazards:

This product is classified as a COMBUSTIBLE LIQUID. Containers may explode in a fire. Toxic gases may be produced in a fire.

Dust Explosion Hazards:

This product does not present a dust explosion hazard under known conditions of use.

Sensitivity to Mechanical Impact:

This product does not present a mechanical impact hazard under known conditions of use.

Sensitivity to Static Discharge:

This product does not present a static discharge hazard under known conditions of use.

Extinguishing Media:

Use water spray, foam, dry chemical or carbon dioxide.

Hazardous Combustion Products:

Hazardous gases produced in a fire may include oxides of nitrogen and carbon and hydrogen cyanide.

Section 6. Accidental Release Measure

Spill Clean-Up Procedures:

Scrape up polyurethane and deposit into appropriate containers.

Health Considerations and Protective Equipment:

Follow the guidelines of 29CFR 1910.120 for dealing with a spill of any size. Personal protective needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill, including the material spilled, the quantity of the spill and the area in which the spill occurred. Never exceed any

occupational exposure limits and consider that the evaporation of volatile solvents can lead to the displacement of air creating an environment that can cause asphyxiation.

Section 7. Handling and Storage

Handling and Storage Precautions:

This product is COMBUSTIBLE. Store in a cool, dry area out of direct sunlight. Store away from all sources of ignition. Use only in well ventilated areas.

Section 8. Exposure Controls and Personal Protection

Ventilation Controls:

Ventilation must maintain vapors below the PEL/TLV exposure limits. Local exhaust is preferred, but general ventilation may be acceptable to meet exposure limits.

Respiratory Protection:

Not normally required. However, where the potential exists to exceed the PEL or TLV, use a MSHA/NIOSH approved full faceplate respirator with an organic vapor cartridge/canister. Increased protection is provided by full facepiece powered air purifying respirators.

Eye Protection:

Safety glasses are recommended.

Skin Protection:

Avoid skin contact. Wear chemical resistant gloves and clothing. Safety equipment suppliers/manufacturers can provide recommendations on the most protective glove/clothing material for your operation.

Section 9. Physical and Chemical Properties

Appearance:	A viscous white paste
Specific Gravity:	1.25 (water = 1)
Density:	10.43 lb/gal
Solubility in Water:	0.0%
Percent Volatile (Weight):	< 6.0
Volatile Organic Compound:	N/D
Vapor Pressure:	N/D
pH:	N/A
Boiling Point:	N/D
Vapor Density:	N/D

Evaporation Rate: N/D
Freezing Point: N/D
Odor Threshold: N/D
Octanol/Water Coefficient: N/D

Section 10. Stability and Reactivity

Stability:

Product is stable under normal temperature and pressure.

Hazardous Polymerization:

Not likely to occur. However, curing of product releases carbon dioxide. If curing occurs inside a closed container, pressure buildup may result.

Conditions to Avoid:

Avoid contact with strong oxidizers, strong alkalis, strong acids, alcohols, water.

Section 11. Toxicological Information

Acute (Short Term) Toxicity:

<u>Component</u>	<u>LD50, Oral</u>	<u>LD50, Dermal</u>	<u>LC50, Inhalation</u>
IPDI	N/A	1060 mg/kg, rat	260 mg/m ³ /4H, rat
Xylene	4300 mg/kg, rat	N/A	5000 ppm, rat

Chronic (Long Term) Toxicity and Other Information:

Chronic exposure can cause reproductive problems, reduced fertility, low blood cell count, drying and cracking of skin, headache, loss of appetite, nausea, liver and kidney damage, sensitization, asthma and reduced lung function and possible central nervous system damage.

Section 12. Ecological Information

Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

Section 13. Disposal Considerations

Dispose of in accordance with all Federal, State and Local rules. Be aware that State and Local requirements may differ widely depending on location and may in many cases be different from Federal rules.

Section 14. Transport Information

DOT Proper Shipping Name:

Not regulated as a hazardous material.

TDG/IATA/IMDG Proper Shipping Name:

Adhesives, 3, UN1133, PG III

Section 15. Regulatory Information

SARA Title III – The following components are listed under Section 313:

<u>CAS Number</u>	<u>Chemical Name</u>
1330-20-7	Xylene (Mixed Isomers)

California Proposition 65:

Chemicals shown below which are not listed in Section II are present at trace levels below those considered hazardous by OSHA.

Chemicals Known to the State of California to Cause Cancer:

No Components Listed.

Chemicals Known to the State of California as Developmental Hazards:

No Components Listed.

Chemicals Known to the State of California as Male Reproductive Hazards:

No Components Listed.

Chemicals Known to the State of California as Female Reproductive Hazards:

No Components Listed.

Toxic Substance Control Act (TSCA) Inventory Status:

All the components of this product are either listed on the TSCA Chemical Substance Inventory or are exempted from listing.

Canadian Domestic Substance List Status:

DSL Status Not Determined

European Union EINECS List Status:

EINECS Status Not Determined.

Special Comments

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Date Prepared: April 20, 2002