

ALIPHATIC BINDER H3168

Methylene BIS (4-Cyclohexylisocyanate)

ACCORDING TO 91/155 EEC

1. Identity Information/Hazardous Ingredients

Trade name: Aliphatic Binder

<u>Hazardous Components (Specific Chemical Identity/Common Name(s))</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>	<u>% (optional)</u>
METHYLENE BIS(4-CYCLOHEXYLISOCYANATE)	N/E	0.005PPM	0.01PPM	
CAS # 5124-30-1		TWA	CEILING	
List number: H3168				

Manufacturer/Supplier

American Recycling Center, Inc.
655 Wabassee Drive
Owosso, MI 48867
Ph: 989-725-5100

Emergency Telephone Number:

CHEMTREC 800-424-9300

Telephone Number for Information:

989-725-5100

2. Physical/Chemical Characteristics:

Boiling Point: N/A

Specific Gravity (H₂O=1): 1.03

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (AIR=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Solubility in Water: Reacts

Appearance and Odor: Viscous Liquid – Mild Order

3. Fire and Explosion Data:

Flash Point (Method Used): >300°F (SETA) **Flammable Limits:** LEL N/A UEL N/A

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam, Water Spray

Special Fire Fighting Procedures: Full Emergency Equipment with Self Contained Breathing Apparatus and Full Protective Clothing Should be Worn by Firefighters.

Unusual Fire and Explosion Hazards: Use Cold Water to Cool Fire Exposed Containers.

4. Reactivity Data:

Stability: Stable **XX** Unstable

Conditions to Avoid: Contamination With Water

Incompatibility (Materials to Avoid): Water, Amines, Strong Bases, Alcohols

Hazardous Decompositions or Byproducts: Oxides of Carbon, Oxides of Nitrogen, Traces of HCN

Hazardous Polymerization: May Occur **XX** Will Not Occur

Conditions to Avoid: Contact with Moisture or Other Materials that React with Isocyanates.



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5. Health Hazard Data

Routes of Entry: Inhalation, Skin, and Ingestion

Health Hazards (Acute and Chronic):

Inhalation: Irritation of Respiratory Tract Mucus Membranes. Isocyanate Sensitization.

Skin Contact: Reddening, Swelling, Rash, Scaling, Blistering, Skin Sensitization.

Eye Contact: Irritation, Tearing, Reddening, Swelling, Corneal Damage.

Ingestion: Irritating and Corrosive to Mouth, Stomach, and Digestive Tract.

Carcinogenicity:	NTP	LARC Monographs	OSHA Regulated
	NO	NO	NO

Signs and Symptoms of Exposure:

Runny Nose, Sore Throat, Coughing, Chest Discomfort, Shortness of Breath, Reduced Lung Function, Bronchitis, Bronchial Spasm, Pulmonary Edema; Irritation, Reddening, Swelling of Skin and Eyes.

Medical Conditions Generally Aggravated by Exposure:

Asthma, Bronchitis, Emphysema, Bronchial Hyperreactivity, Skin Allergies, Eczema

Emergency and First Aid Procedures: Eyes: Flush with water for at least 15 minutes holding eyelids open all the time. Seek medical attention immediately. Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation develops. Inhalation: Remove from exposure area. Administer oxygen or artificial respiration as needed. Obtain medical attention. Ingestion: DO NOT induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult Physician.

6. Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Evacuate and ventilate spill area. Properly protected personnel should contain and cover spill with absorbent material. Place in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Leave ventilated 24 hours.

Waste Disposal Method: Dispose of in accordance with federal, state and local environmental regulations.

Precautions to be Taken in Handling and Storing: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes. Do not breathe aerosols or vapors.

Other Precautions: Isocyanates react slowly with water to form CO₂ gas. This gas can cause sealed containers to expand and possibly rupture.



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7. Control Measures

Respiratory Protection (Specify Type): NIOSHA Approved Respiratory Protection if TLV/PEL Exceeded.

Ventilation: Local Exhaust **Preferred** Special **N/A**
Mechanical (General) **N/A** Other **N/A**

Protective Gloves: Butyl Rubber, Nitrile Rubber

Eye Protection: Chemical Safety Goggles

Other Protective Clothing or Equipment: Eye Bath and Shower

Work/Hygiene/Maintenance Practices: Wash hands before eating and smoking. Do not smoke in area. Keep containers closed. Use with adequate ventilation. Do not enter storage area unless adequately ventilated.

8. Transportation Information

DOT (Domestic Surface)

Proper Shipping Name	Other Regulated Substances, Liquid, N.O.S.
Hazard Class or Division	9
UN/NA Number	NA3082
Packaging Group	III
DOT Product RQ lbs (kgs)	None
Hazard Label(s)	Class 9
Hazard Placard(s)	Class 9

IMO / IMDG Code (Ocean)

Hazard Class Division Number	Non-Regulated
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ICAO / IATA (Air)

Proper Shipping Name	Aviation Regulated Liquid, N.O.S.
Hazard Class Division Number	9



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UN Number	UN3334
Subsidiary Risk	None
Packing Group	None
Hazard Label(s)	Miscellaneous
Radioactive?	Non-Radioactive
Passenger Air-Max. QTY.	100 Liters
Passenger Packing Instruction	906
Cargo Air-Max. QTY.	220 Liters
Cargo Air Packing Instruction	906

PRODUCT: ALIPHATIC BINDER H3168

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372:

CAS#	CHEMICAL NAME	% BY WEIGHT
5124-30-1	METHYLENE BIS(4-CYCLOHEXYLISOCYANATE)	31

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute and other warranty express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.



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