

SAFETY DATA SHEET

10/26/2017

PremARC™ Aliphatic 70 Urethane Binder

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name: PremARC™ Aliphatic 70 Urethane Binder

Details of the supplier of the safety data sheet

Supplier: American Recycling Center, Inc.
 655 Wabassee Drive
 Owosso, MI 48867

Emergency telephone number

24-Hour Emergency Phone number: 800-424-9300
 Customer Information Center: 989-725-5100

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS & HAZARD STATEMENTS:

GHS Ratings:

Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Mutagen	2	Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity
Reproductive toxin	1B	Presumed, Based on experimental animals

GHS Hazards

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H341 Suspected of causing genetic defects
- H360 May damage fertility or the unborn child

GHS Precautions

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash hands thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required
- P285 In case of inadequate ventilation wear respiratory protection
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P321 Specific treatment is urgent (see Section 4 First Aid measures)
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse

P302+P352 IF ON SKIN: Wash with soap and water
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P308+P313 IF exposed or concerned: Get medical advice/attention
 P332+P313 If skin irritation occurs: Get medical advice/attention
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
 P337+P313 Get medical advice/attention
 P342+P311 Call a POISON CENTER or doctor/physician
 P405 Store locked up
 P501 Dispose of contents/container in accordance with Section 13

DANGER!



PPE:



This product is a **"Hazardous Chemical"** as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Concentration %
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatocyclohexane]	67837-35-8	80.00%-90.00%
Cyclohexane, 1,1'-methylenebis[4-isocyanato-	5124-30-1	10.00%-20.00%
Dibutyltin dilaurate	77-58-7	1.00%-5.00%

SECTION 4: FIRST AID MEASURES

Description of first aid measures

After Inhalation:

May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity. Remove from exposure area. Administer oxygen or artificial respiration as needed. Obtain medical attention.

After Eye Contact:

Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.

After Skin Contact:

Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation develops.

After Swallowing:

Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

Notes to Physician:

Treat symptomatically. Following severe exposure the patient should be kept under medical review for a least 48 hours.

SECTION 5: FIREFIGHTING MEASURES

FLASH POINT: > 392 oF (200oC), not self-igniting

EXTINGUISHING EQUIPMENT and MEDIA:

Dry chemical, Carbon dioxide (CO2), Foam, water spray

Information about Protection against Explosions and Fires:

Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition:

Oxides of carbon, oxides of nitrogen, and traces of HCN.

Protective Equipment:

Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-Related Safety Precautions:

Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Environmental precautions:

Cover and contain 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%). Collect for proper disposal according to local, state, and federal regulations. Methods and material for containment and cleaning up:

Note: Always wear proper PPE when cleaning up an isocyanate spill and using a neutralization solution.

SECTION 7: HANDLING AND STORAGE

Information for Safe Handling:

Do not breathe fumes, vapors, or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.

Storage Requirements:

Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F- 100°F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name / CAS no.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatocyclohexane] 67837-35-8	Not Established	Not Established	Not Established
Cyclohexane, 1,1'- methylenebis[4-isocyanato- 5124-30-1	0.01 ppm TWA	0.005 ppm TWA	NIOSH: 0.01 ppm ceiling; 0.11 mg/m3 ceiling
Dibutyltin dilaurate 77-58-7	Not Established	Not Established	Not Established

Engineering Controls:

Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

General Protective and Hygienic Measures:

Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment:

Respiratory Protection:

Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless it is adequately ventilated.

Hand Protection:

Protective butyl rubber or nitrile rubber gloves.

Eye Protection:

Chemical safety goggles.

Body Protection:

Protective work clothing. Launder separately.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid
Color	Clear
Odor	Pungent
Odor Threshold	Not Applicable
Vapor Density	Not Applicable

pH	Not Applicable
Specific Gravity	1.07
Freezing Point	Not Applicable
Solubility(ies):	Not Applicable
Boiling Point	Not Applicable
Flash Point	>392.°F(200 °C)
Evaporation Rate	Not Applicable
Flammability (Solid, Gas)	Not Applicable
Vapor Pressure	Not Applicable
Partition Coefficient N-octanol/water	Not Applicable
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Incompatible Materials:

Avoid contact with water, amines, strong bases, and alcohols .

Hazardous Polymerization:

Not expected to occur.

Dangerous Products of Decomposition:

Oxides of carbon, oxides of nitrogen, hydrocarbons, isocyanates, and traces of HCN.

SECTION 11: TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 2,153mg/kg

Inhalation Toxicity LC50: 4mg/L

Component Toxicity

77-58-7 Dibutyltin dilaurate

Oral LD50: 4 5 mg/kg (Rat) Dermal LD50: 630 mg/kg (Rabbit)

Toxicity Values Listed if Known

Acute Health Effects:

Eyes:

Severe irritation, tearing, swelling, and possible damage to cornea.

Skin:

Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation:

Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion:

Irritating and corrosive to mouth, stomach, and digestive tract..

Chronic Health Effects:

Isocyanates may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure.

Conditions Aggravated by Exposure:

Asthma, respiratory disorders, skin allergies, eczema

Routes of Entry :

Inhalation, ingestion, skin contact, eye contact

Target Organs:

Respiratory tract, eyes, skin

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
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SECTION 12: ECOLOGICAL INFORMATION

General Information:

Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed. Individual component Eco-toxicity listed if known.

Component Eco-toxicity	
Cyclohexane, 1,1'-methylenebis[4-isocyanato-	96 Hr LC50 Brachydanio rerio: 1.2 mg/L [static]; 96 Hr LC50 Brachydanio rerio: 1.2 - 2.76 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

Recommendation:

Observe local requirements. Dispose of in accordance with local/state/federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Regulated Components:

Dicyclohexylmethane-4,4'-Diisocyanate

Reportable Quantity: No minimum threshold

Material ships as follows:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Dicyclohexylmethane-4,4'-Diisocyanate)	3082	III	9
ICAO/IATA	Aviation Regulated Substance, Liquid , N.O.S. (Contains Dicyclohexylmethane-4,4'-Diisocyanate)	3334	III	9

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD:

This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories:

Acute health hazard, chronic health hazard.

California Proposition 65

(Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Massachusetts Right To Know List:

Cyclohexane, 1,1'-methylenebis[4-isocyanato- 5124-30-1 10 to 20 %

New Jersey Right To Know List:

Cyclohexane, 1,1'-methylenebis[4-isocyanato- 5124-30-1 10 to 20 %

Pennsylvania Right To Know List:

Cyclohexane, 1,1'-methylenebis[4-isocyanato- 5124-30-1 10 to 20 %

Chemicals subject to SARA 313 Reporting:

Cyclohexane, 1,1'-methylenebis[4-isocyanato- 5124-30-1 10 to 20 % Emissions

All Substances Listed on TSCA Inventory Unless Noted:

- None

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

American Recycling Center urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date of the SDS. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all applicable federal, state, provincial and local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of American Recycling Center, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.



This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, American Recycling Center, Inc. is not and cannot be responsible for (M)SDSs obtained from any source other than American Recycling Center, Inc. If you have obtained an American Recycling Center, Inc (M)(M)SDS from a non American Recycling Center, Inc. source or if you are not sure that the (M)(M)SDS is current, please contact American Recycling Center, Inc. for the most current version.

Department issuing M(M)SDS: EH&S Delivery
Contact: Customer Service 989-725-5100

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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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