

SAFETY DATA SHEET

03/29/2021

PremARC® Maintenance Aliphatic Urethane Gel

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

Product identifier

Product Name: PremARC® Maintenance Aliphatic Urethane Gel

Details of the supplier of the safety data sheet:

Supplier: American Recycling Center, Inc.
655 Wabasse 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

Classification of the substance or mixture



GHS08 Health hazard

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H333 May be harmful if inhaled.

Storage:

Store in a well-ventilated place. Keep container tightly closed. In closed containers, there may be a risk of pressure build up due to water contamination (Liberated CO2 Gas). Store locked up.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Harmful

Harmful by inhalation.



Irritant

May cause sensitization by inhalation and skin contact.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

Code letter and hazard designation of product:



Harmful

Hazard-determining components of labelling:

hexamethylene-di-isocyanate

Risk phrases:

Harmful by inhalation.
 May cause sensitization by inhalation and skin contact.

Safety phrases:

Keep out of the reach of children. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). Avoid contact with skin. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment
 PBT
 Not applicable.
 vPvB
 Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical characterization: Mixtures

Description:

Aliphatic Polyurethane Varnish
 Prepolymer based on aliphatic polyisocyanate (HDI)
 Total amount of monomeric hexamethylene-diisocyanate (HDI) is less than 0.50%

| Dangerous components: | | |
|-------------------------------|------------------------------------|-------|
| <i>N-methyl-2-pyrrolidone</i> | H331; H315; H319; H317; H335; H334 | <0.5% |

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore, medical observation is required for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek medical treatment in case of complaints. In case of respiratory failure or breathing irregularities, commence resuscitation or administer oxygen. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact:

Instantly wash with water and soap and rinse thoroughly. Remove any contaminated clothing. If skin irritation persists, seek medical advice. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:



Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing agents:

Water with full jet

Special hazards arising from the substance or mixture

Can be released in case of fire:

Nitrogen Oxides (NO_x)

Carbon Monoxide (CO)

Hydrogen Cyanide (HCN)

Advice for firefighters

Protective equipment:

Wear breathing apparatus

Wear full protective suit with self-contained breathing apparatus

See Section 8

Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or bodies of water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. Keep the material damp and exposed to the air in a secure area (CO₂-formation!) until completely solidified. The waste can then be disposed of on an approved landfill or a special refuse dump. Ensure adequate ventilation. In the event of a large spill, treat spill area with decontamination solution.

Preparation of decontamination solution:

Prepare a mixture of 0.2 - 0.5% liquid detergent and 3 - 8% concentrated ammonium hydroxide in water (5 - 10% sodium carbonate may be substituted for the ammonium hydroxide).

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Handling

Precautions for safe handling:

Ensure good ventilation/exhaust at the workplace. Keep containers tightly sealed. Prevent formation of aerosols. Exhaust ventilation required during spraying or when material is being used at temperatures above 100 degrees F.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pay attention to the general rules of internal fire prevention.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Recommended ideal storage temperature range:

59 - 77 degrees F. Product should not be stored below 40 degrees or above 110 degrees F.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:
 Keep container tightly sealed.

Specific end use(s):
 No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:
 No further data; see item 7.

Control parameters

| | |
|--|--|
| Components with limit values that require monitoring at the workplace: | |
| 822-06-0 hexamethylene-di-isocyanate | |
| REL | Short-term value: C 0.14*mg/m ³ , C 0.02*ppm Long-term value: 0.035mg/m ³ , 0.005ppm *10-min |
| TLV | 0.034 mg/m ³ , 0.005ppm |

Additional information:
 The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:
 General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

Breathing equipment:
 In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 The following glove types are recommended: neoprene, nitrile rubber, PVC or butyl rubber. Thin, disposable latex gloves should be avoided for repeated or long term handling of the material. Recommended thickness of the glove material: 5 – 6 mil
 Selection of the glove material should be based on the consideration of penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be Observed.

Eye protection:
 Goggles recommended during refilling.

Body protection:
 Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

| | |
|---------------------|----------------|
| Form | Liquid |
| Color | Opaque |
| Odor | Characteristic |
| Odor Threshold | Not determined |
| pH-value@20°C(68°F) | Not determined |

Change in Condition:

| | |
|----------------------|------------------------------|
| Melting Point | Undetermined |
| Boiling Point | Undetermined |
| Flash Point | >100°C (>212°F) |
| Ignition temperature | >210°C (>410°F) |
| Decomposition temp. | Not determined |
| Auto Igniting | Product does not self-ignite |

Danger of Explosion Product does not present an explosion hazard

Explosion Limits:

Lower: 0.5 Vol%
 Upper: 6.5 Vol%
 Vapor Pressure 2 hPa (2mm Hg)
 Density 1.07 g/cm³ (8.929lbs/gal)

@20 °C(68°F)

Relative Density Not determined
 Vapor Density Not determined
 Evaporation Rate Not determined
 Solubility in/ Miscibility
 Water: Insoluble, Reacts

Segregation Coefficient
 (n-octanol/water)Not determined

Viscosity
 Dynamic at20 °C(68°F): 1500 mPas
 Kinematic: Not determined

Solvent Content:

Organic Solvents 0.0%
 Solids content 99.5%
 Other Information No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Chemical stability:

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

Exothermic reaction with amines and alcohols
 Reacts with water to liberate CO₂ gas which may build pressure in closed containers

Conditions to avoid:

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

By Fire and High Heat: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen and traces of HCN.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Primary irritant effect:

on the skin:
 Skin irritation may occur with overexposure.
 on the eye:
 eye irritation may occur with overexposure.

Sensitization:

Sensitization possible through inhalation.
 Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant
 Harmful

Acute toxicity:

| | | |
|--|------|------------------|
| LD/LC50 values that are relevant for classification: | | |
| 822-60-0 hexamethylene-di-isocyanate | | |
| Oral | LD50 | 7338 mg/kg (rat) |
| Dermal | LD50 | 593 mg/kg (rat) |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Acquatic toxicity:



No further relevant information available.

Persistence and degradability:

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes:

This product is not miscible with water. Reacts with water at the interface producing CO₂ gas and forming a solid and insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (eg. detergents) or by water-soluble solvents. Previous experience demonstrates that polyurea is inert and non-degradable. Water hazard class 1 (self-assessment): slightly hazardous for water.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. Empty containers may only be disposed of after neutralising any product remaining on the walls of the containers with a mixture of isopropanol, ammonia and water and removal of the warning labels. For preparation of decontamination solution, refer to section 6.

SECTION 14: TRANSPORT INFORMATION

DOT Regulations:

Hazard class: -

Land transport ADR/RID(cross-border):

ADR/RID: -

Martime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA class: -

UN "Model Regulation": -

Special precautions for user:

Not applicable

Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

822-60-0 hexamethylene-di-isocyanate

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:



None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

N-methyl-2-pyrrolidone

Cancer ogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

121-44-8 triethylamine

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Product related hazard information's:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:



Harmful

Hazard-determining components of labelling:

hexamethylene-di-isocyanate

Risk phrases:

Harmful by inhalation. May cause sensitisation by inhalation and skin contact.

Safety phrases:

Keep out of the reach of children. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). Avoid contact with skin. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Special labeling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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.

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Department issuing SDS: *EH&S Delivery*
Contact: *Customer Service 989-725-5100*

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