



Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS
Rev03.

Created 07/19/19

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 85% POLYASPARTIC ACTIVATOR

Product Use Description : Polyaspartic Floor Coating

Manufacturer/Importer/Distributor : SIMIRON
32700 Industrial Drive
Madison Heights, MI 48071
www.simiron.com

Telephone : (866)515-8775

Emergency telephone number (24h) : (800)535-5050 Infotrac

2. HAZARDS IDENTIFICATION

GHS classification

Skin sensitization - Category 1

GHS label elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

H317: May cause an allergic skin reaction.

Precautionary Statements:

Prevention : P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280e: Wear protective gloves.

Response	: P302+P352 :IF ON SKIN: Wash with plenty of soap and water. P333+P313 :If skin irritation or rash occurs: Get medical advice/attention. P363 :Wash contaminated clothing before reuse.
Disposal	: P501:Disposal of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified

Container may rupture on heating.
Contamination may result in dangerous pressure increases - closed containers may rupture.
Exposure to decomposition products may be a hazard to health.
Mild eye irritant.
Moderate skin irritant.
May cause sensitization by skin contact.
Energetically reacts with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	> 99.85%
Hexane, 1,6-diisocyanato-	822-06-0	< 0.15 %

CHEMICAL FAMILY: Epoxy Resin.

4. FIRST AID MEASURES

General advice	: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact	: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
Skin contact	: Discard contaminated shoes and clothing. Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.
Ingestion	: If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration of material into the lungs. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	: Move to fresh air.
Most important symptoms/effects - acute and delayed	: Skin disorders and Allergies.

Immediate Medical Attention and Special Treatment

Treatment : NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : For smaller fires, use dry chemical or carbon dioxide, do not use water. For large fires, flood fire area with water from as far as possible, using a protective barrier and appropriate personal protective equipment.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.
Limestone powder.
- Extinguishing media which must not be used for safety reasons. : Water.
Alcohol-resistant foam.
- Specific hazards : Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated. Reacts energetically with water.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Do not allow run-off from firefighting to enter drains or water courses., Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment, and Emergency Procedures : Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
- Environmental precautions : Construct a dike to prevent spreading.
- Methods for cleaning up : Prepare a decontamination solution of 0.2-5% liquid detergent and 3-8% concentrated ammonium hydroxide in water. Treat spill area with decontamination solution, using about 10 parts of the solution for each part of the spill and allow it to react for at least 10 minutes for trace amounts and 48 hours for large spills. Neutralize the waste. Carbon dioxide will evolve, leaving insoluble polyureas. Call Emergency Response number for advice. Approach suspected leak areas with caution. Absorb with inert absorbent materials such as: Dry sand. Vermiculite. Polypropylene. Place in appropriate chemical waste container.
- Additional advice : Protect from water. If possible, stop flow of product.
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7. HANDLING AND STORAGE

Handling

Spraying increases the risk of hazardous exposure . In atmospheres where the material is sprayed, workers should avoid contact with aerosols. Heat only in areas with appropriate exhaust ventilation. Handle under inert gas atmosphere in dry equipment. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Store under a nitrogen atmosphere. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in an area suitable for water reactive materials. Minimize exposure to air. Exposure may cause material to degrade.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

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|---|--|
| Respiratory protection | : Spraying increases the risk of hazardous exposure . In atmospheres where the material is sprayed, workers should avoid contact with aerosols through proper engineering controls such as exhaust ventilation and/or proper protective equipment such as a full-face air-supplied respirators. |
| Hand protection | : Polyvinyl Alcohol Gloves (PVA).
Loose fitting thermal insulated or leather gloves.
Impervious gloves.
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Eye protection | : Chemical resistant goggles must be worn. |
| Skin and body protection | : Long sleeve shirts and trousers without cuffs. |
| Special instructions for protection and hygiene | : Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers. |

Exposure limit(s)

Hexane, 1,6-diisocyanato-	Time Weighted Average (TWA): ACGIH	0.005 ppm	-
Hexane, 1,6-diisocyanato-	Recommended exposure limit (REL): NIOSH	0.005 ppm	0.035 mg/m3
Hexane, 1,6-diisocyanato-	Ceiling Limit Value and Time Period (if specified): NIOSH	0.020 ppm	0.140 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid. Yellow.
Odor	: Odorless.
Odor threshold	: No data available.
pH	: No data available.
Melting point/range	: No data available.
Boiling point/range	: No data available.
Flash point	: 316 °F (158 °C)
Evaporation rate	: No data available.
Flammability (solid, gas)	: Not applicable.
Upper/lower explosion/flammability limit	: Not applicable.
Vapor pressure	: < 0.00 mmHg
Water solubility	: Reacts Energetically.
Relative vapor density	: Not applicable.
Relative density	: 1.16
Partition coefficient (n-octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: 3,000 mPa.s at 73 °F (23 °C)
Molecular Weight	: No data available.

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: To avoid thermal decomposition, do not overheat. Exposure to moisture.
Materials to avoid	: Copper alloys Amines. Strong acids. Oxidizing agents. Humid air. Reacts energetically with water. Alcohols. Metals.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide (CO ₂). Isocyanates. Carbamates. Cyanic acids. Cyanogen Nitrile Toxic cyanates. Hydrogen cyanide.
Possibility of hazardous Reactions/Reactivity	: Exothermic reaction with strong acids., Reacts violently in contact with acids, amines, dryers, polymerization accelerators and easily oxidized materials. Energetically reacts with water.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye	: Contact with eyes may cause irritation.
Effects on Skin	: Causes skin irritation.
Inhalation Effects	: This product presents an elevated inhalation health risk when used in spray or aerosol applications.
Ingestion Effects	: Aspiration hazard if swallowed - can enter lungs and cause damage.
Symptoms	: No data available.

Acute toxicity

Acute Oral Toxicity	: LD ₅₀ : > 5,000 mg/kg Species : Rat.
Inhalation	: This product may be toxic by inhalation when used in spray or aerosol

applications.

Inhalation - Components
Hexane, 1,6-diisocyanato- LC50 (4 h) : 0.12 - 0.35 mg/l Species : Rat.

Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components
Hexane, 1,6-diisocyanato- LD50 : 599 mg/kg Species : Rabbit.

Skin corrosion/irritation : Moderate skin irritation.

Serious eye damage/eye irritation : Mild eye irritation.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : No data is available on the product itself.

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction. Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : LC0 (96 h) : > 100 mg/l Species : Fish.
EC0 (48 h) : > 100 mg/l Species : Daphnia
(72 h) : > 1,000 mg/l Species : Scenedesmus subspicatus
Method : OECD Test Guideline 201

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : Not readily biodegradable.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
Acute Health Hazard Reactivity Hazard. Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 2
Flammability : 1
Physical hazard : 1

Prepared by :SIMIRON EH&S Product Safety Department

Telephone :248-686-3600

Preparation Date :01/26/17

Safe for incidental food contact.