

PRECISION COATINGS SAFETY DATA SHEET

Section 1. Identification

GHS product identifier: Reles Activator
Product number: RA6000
Product use: Polyurethane Activator
Restrictions on use: None known
Manufacture/Supplier: Precision Coatings
Address: 1940 E. Trafficway
Springfield, MO 65802
Telephone: 417-862-5738
FAX: 417-862-8874
Website: www.precisioncoatingsinc.com
Emergency telephone number: 800-424-9300 Chemtrec Contract CCN675735

Section 2. Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

Hazard classification:

Health hazards: Skin Sensitizer: Category 1
Acute Toxicity/Inhalation: Category 4
Specific Target Organ Toxicity (Single Exposure): Category 3, RTI

GHS label elements

Hazard pictograms:



Signal word: Warning

Hazard statements: H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.

Precautionary statements:

Prevention: P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
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.

Response: P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor/physician if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician
P362+P364: Take off contaminated clothing and wash if before reuse.

Storage: P405: Store in a well ventilated place. Keep container tightly closed. Store locked up.

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Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known.

Section 3. Composition / Information on Ingredients

Components:	CAS #	Percent
HDI homopolymer	28182-81-2	60 -100
Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	666723-27-9	15 - 25
Hexamethylene-1,6-Diisocyanate	822-06-0	<0.5

Section 4. First aid measures

Eye Contact: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

Inhalation: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Ingestion: Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

Section 5. Fire-fighting measures

Extinguishing media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire and Explosion Hazards: Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO₂ formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

Special Firefighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service and eliminates all sources of ignition. Water spray to cool containers or protect personnel. Use with caution.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Steps to be Taken in Case Material is Released or Spilled: Wear appropriate personal protective equipment (See Exposure Controls /

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Personal Protection Section). Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Do not apply water to the leak. Water fog may be used to suppress vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, not-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump). Pump and free liquid into a closed but not sealed container to allow for the escape of any CO₂ that forms. Sealing the container may lead to rupture as any contaminated isocyanate reacts. Wash contaminated area with large amounts of water.

Section 7. Handling and storage

Precautions for safe handling: Use only in a well ventilated area. Avoid breathing vapors, fumes or mist. Avoid contact with eyes, skin and clothing. Material accumulates static charge (ignition source). Ground and bond containers with transferring material. Use spark-proof tools and explosion proof equipment. Always open container slowly to allow excess pressure to vent. After opening, purge container with nitrogen before reclosing. Follow all SDS/label precautions even after containers are emptied because they may retain product residues.

Conditions for safe storage, including any incompatibilities:

Keep away from heat, spark and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Storage under nitrogen atmosphere is recommended. Material reacts with water. Dike storage containers to contain 110% of tank volume. Vent indoor tanks to an outside location so escaping vapors will not contaminate any work area.

Section 8. Exposure controls / personal protection

Control parameters

Occupational Exposure Limits:

Components	ACGHI TLV-TWA	ACGHI-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Hexamethylene-1,6-Diisocyanate	0.005 ppm	N.D.	N.D.	N.D.
HDI homopolymer	N.D.	N.D.	N.D.	N.D.

Personal Protection:

Respiratory Protection: NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

Skin Protection: Wear impervious gloves to prevent contact with skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed – apron, suit, boots.

Eye/face Protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Other Protective Equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Hygienic Practices: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

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Section 9. Physical & Chemical Properties

Appearance:	Clear liquid
Physical state:	Liquid
Odor:	Typical
Odor Threshold:	Not Available
Density, g/cm³:	1.15
pH:	Not available
Freeze Point, F°:	Not available
Viscosity:	Not available
Solubility in Water:	Partial
Explosive Limits, vol. %:	Not available
Boiling Range:	Decomposition
Flash Point:	185°C (365°F)
Evaporation rate:	Not Available
Auto-ignition Temp, F°:	Not Available
Vapor pressure:	Not Available
Vapor density:	Not Available
Volatile Organic Compounds (VOCs) g/l:	0

Section 10. Chemical stability & reactivity information

Chemical stability:	No Information
Hazardous Polymerization:	No Information
Conditions to avoid:	Heat, flames and sparks. Protect from freezing.
Incompatible materials:	Avoid contact with moisture and/or water. Prevent contact with strong oxidizing agents. Keep away from strong bases. Avoid contact with amines. Keep away from acids. Avoid contact with alcohols.
Hazardous decomposition products:	Toxic gases/fumes and given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. Decomposition releases nitrogen oxides.

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Section 11. Toxicological information

Information on toxicological effects

Effects of Overexposure – Inhalation:

Harmful if inhaled. May be irritating to the respiratory system. Certain individuals will develop sensitization (chemical asthma) which will result in reactions at levels below the TLV. May cause dizziness and drowsiness.

Effects of Overexposure - Skin Contact:

Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

Effects of Overexposure – Eye Contact:

Causes serious irritation to eyes. May cause tearing, redness and discomfort.

Effects of Overexposure – Ingestion:

Irritating to mouth, throat, and stomach. Ingestion may cause gastrointestinal tract irritation. Overexposure may cause nausea, diarrhea, and/or vomiting.

Effects of Overexposure – Chronic Hazards:

Overexposure may cause nervous system damage. Overexposure may cause kidney damage. May cause liver disorder (e.g., edema, proteinuria) and damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes.

Primary Route(s) of Entry: Eye contact, Ingestion, Inhalation, Skin contact

Acute Toxicity Values: The acute effects of this product have not been tested. Data on individual components are tabulated below:

Name according to EEC :	<u>Cas Number</u>	<u>Oral LD50, mg/kg</u>	<u>Dermal LD50, mg/kg</u>	<u>Vapor LC50, mg/L</u>
HDI homopolymer	28182-81-2	>5,000	N.D.	N.D.

Section 12. Ecological information

Toxicity

Acute toxicity

Fish

Product: Not available

Specified substances: Not available

Aquatic invertebrates

Product: Not available

Chronic toxicity

Fish

Product: Not available

Aquatic invertebrates

Product: Not available

Toxicity to aquatic plants

Product: Not available

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Specified substances: Not available

Persistence and degradability

Biodegradation
Product: Not available

Specified substances: Not available

Biological Oxygen Demand
Product: Not available

Specified substances: Not available

Chemical Oxygen Demand
Product: Not available

Specified substances: Not available

BOD/COD ratio: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment: Not available

Other adverse effects: Not available

Section 13. Disposal considerations

Disposal methods: Dispose of waste in accordance with all local, state and federal regulations.

Section 14. Transport information

DOT

Basic shipping requirements:

UN number: 3082

Proper shipping name: Other regulated substances, liquid, n.o.s. (contains Hezamethylene-1,6-Diisocyanate)

Hazard class: 9

Labels required: 9

IATA

Basic shipping requirements:

Not Regulated

Section 15. Regulatory information

US federal regulations

OSHA: This product is hazardous according to OSHA 29 CFR 1910.1200

SARA Title III Section 313 – Toxic Chemical: Listed Substance: None

SARA Title III Section 302 Extremely hazardous substances: None

SARA Title III Section 311/312 Hazard categories: Immediate (acute) health hazard
Delayed (chronic) health hazard
Reactive hazard

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Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State Regulations

California Proposition 65: **Warning:** This product does not contain a chemical known to the State of California to cause cancer.
Warning: This product does not contain a chemical known to the State of California to cause birth defects or other reproductive harm.

Massachusetts RTK: None

New Jersey RTK: None

Pennsylvania RTK: None

Section 16. Other Information

Further

information HMIS® is a registered trade and service mark of the NPCA

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ratings: Health: 2
Flammability: 2
Reactivity: 1 – Minimal Hazard
Personal Protection: Yes

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