SAFETY DATA SHEET

United States — OSHA HCS 2024 (29 CFR 1910.1200)

Crosslinker

Version: 1.0 | Issue Date: 2026-10-07

SECTION 1 — IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE SUPPLIER

1.1 Product identifier

Product Name: Crosslinker

Product Code: —

Product Type: Mixture

1.2 Relevant identified uses

Identified Uses: Urethane Crosslinker

Uses Advised Against: Any use other than the identified use.

1.3 Details of the supplier

Manufacturer: Legacy Industrial Products LLC, 570 Lake Cook Rd. Ste 300 Deerfield, IL 60015 · Tel: 888-652-0333

1.4 Emergency telephone number

Emergency Phone: InfoTrac: 1-800-535-5053

SECTION 2 — HAZARD(S) IDENTIFICATION

2.1 Classification of the substance/mixture

United States — OSHA HCS 2024: Serious Eye Damage — Category 1 (H318); Germ Cell Mutagenicity — Category 2 (H341); Hazardous to the Aquatic Environment, Long-Term — Category 3 (H412)

2.2 Label elements

Signal Word: DANGER



Corrosion
GHS05



Health Hazard
GHS08

Hazard Statements:

H318: Causes serious eye damage.
H341: Suspected of causing genetic defects.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously 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.
P310: Immediately call a POISON CENTER or doctor.

Storage:
P405: Store locked up.
Disposal:
P501: Dispose of contents/container in accordance with local regulations.
General:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

2.3 Other hazards

Hazards Not Otherwise Classified (HNOC): None known.

Unknown Acute Toxicity: No ingredient at or above 1% is of unknown acute toxicity.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	CAS Number	Concentration	H-Codes
Silane	—	60% - 100%	H318, H341, H402, H412

Carrier listed first. All concentrations % w/w. US: concentrations are exact % w/w unless shown as a range per 29 CFR 1910.1200(i). Components are listed at or above 1%, or 0.1% for carcinogens, mutagens, reproductive toxicants, acute toxicants, corrosives and sensitizers - or a lower specific concentration limit where one governs the mixture classification.
The specific chemical identity and/or exact percentage (concentration) of one or more ingredients has been withheld as a trade secret in accordance with 29 CFR 1910.1200(i) and applicable trade-secret provisions. All hazard information is disclosed in full; the hazard classification of this product was determined using the complete, unredacted composition.

SECTION 4 — FIRST-AID MEASURES

4.1 Description of first-aid measures

General: First aiders must protect themselves. If medical advice is needed, have the product container or label at hand.

Inhalation: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

Skin Contact: For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

Eye Contact: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

Ingestion: Get medical attention immediately.

4.2 Most important symptoms and effects

Causes serious eye damage.; Suspected of causing genetic defects.; Harmful to aquatic life with long lasting effects.

4.3 Indication of immediate medical attention

Treat symptomatically. No specific antidote is known.

SECTION 5 — FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Media: Alcohol Resistant (AR) Fluorine Free Foam (F3). Carbon dioxide. Dry chemical. Water - Use Fine Spray or Fog.

Unsuitable Media: None known.

5.2 Special hazards arising from the mixture

Hydrolyzes on contact with moisture releasing ignitable vapors. Consider possible formation of explosive mixtures with air, for example in uncleaned containers by moisture. Hazardous combustion products: formaldehyde, silicon dioxide, carbon

dioxide, carbon monoxide and incompletely burnt hydrocarbons.

5.3 Advice for firefighters

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material. HAZWOPER PPE Level: D

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal.

SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10. Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions: Observe local/state/federal regulations. Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

Incompatible Materials: Observe local/state/federal regulations. Reacts with water, basic substances and acids.

7.3 Specific end use(s)

Urethane Crosslinker

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Silane	Methanol: 260.0 mg/m3, 200.0 ppm	Methanol: 200.0 ppm (TWA); STEL 250 ppm, skin notation (ACGIH)	Methanol: STEL 250 ppm, skin notation (NIOSH)

8.2 Exposure controls

Engineering Controls:	Provide adequate general and local exhaust ventilation. Eye wash station and safety shower required.
Respiratory Protection:	If spraying or other operations which generate an aerosol mist are conducted, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.
Hand Protection:	butyl rubber protective gloves
Eye/Face Protection:	Safety glasses with side shields. Goggles or a full-face respirator should be worn.
Skin/Body Protection:	Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.
Hygiene Measures:	Do not breathe dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Avoid contact with eyes and skin. Wash thoroughly after handling.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State / Appearance:	Liquid — clear
Odor:	ester like
Melting Point / Freezing Point:	Not determined
Boiling Point / Range:	248 C
Flammability:	Not determined
Lower / Upper Explosion Limits:	Not determined
Flash Point:	122 C
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
pH:	Not determined
Kinematic Viscosity (mm^2/s):	Not determined
Solubility (H_2O):	Not determined
Partition Coefficient (log Kow):	Not determined
Vapor Pressure:	Not determined
Specific Gravity:	1.07
Relative Vapor Density:	Not determined
Particle Characteristics:	Not determined

9.2 Other information

No other information relevant to safety is available.

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards known under normal conditions of use.

10.2 Chemical stability

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur.

10.4 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

10.5 Incompatible materials

Reacts with water, basic substances and acids. The reaction takes place with the formation of methanol.

10.6 Hazardous decomposition products

Methanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Routes of Exposure: Inhalation, Skin contact, Eye contact, Ingestion

Acute Toxicity: LD50 Oral Rat (male and female) 8025 mg/kg; LD50 Dermal Rabbit (male) 4248 mg/kg

Acute Toxicity (LC50, inhalation): LC50 Inhalation (aerosol) Rat (male and female) > 5.3 mg/l; 4 h

Component	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silane	---	Rat (male and female) 8025 mg/kg	Rabbit (male) 4248 mg/kg	LC50 Inhalation (aerosol) Rat (male and female) > 5.3 mg/l; 4 h

Component values are literature data for each substance as supplied; they are not measurements on this mixture.

Skin Corrosion/Irritation: No skin irritation (Rabbit, semi-occlusive, OECD 404, test report)

Eye Damage/Irritation: serious damages to eyes (Rabbit, OECD 405, test report)

Sensitization: Does not cause skin sensitization (Guinea pig, Buehler Test, OECD 406); Does not cause skin sensitization (Voluntary persons, Human experience, no guideline followed)

Germ Cell Mutagenicity: Suspected of causing genetic defects. (H341).

Carcinogenicity: Animal tests have not revealed any carcinogenic effects. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, probable/possible/confirmed human carcinogen by IARC, or a carcinogen/potential carcinogen by OSHA.

Reproductive Toxicity: Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

STOT — Single Exposure: Not classified.

STOT — Repeated Exposure: Not classified.

Aspiration Hazard: Not classified.

Symptoms of Exposure: Inhalation of aerosol spray may damage health.

Delayed / Chronic Effects: Suspected of causing genetic defects. (H341).

Skin irritation studies: (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: not irritating (rabbit, OECD 404; ECHA registration dossier)

Eye irritation studies: (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: irritating (rabbit, OECD 405; ECHA registration dossier)

Sensitisation studies: (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: not sensitising (guinea pig, OECD 406, GLP; ECHA registration dossier)

Genotoxicity assays: (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: Ames positive; micronucleus positive (5 positive / 1 negative reports; EPA ToxValDB)

Repeated-dose studies: (3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: NOAEC 225 mg/m³ (rat, inhalation, 2 wk, short-term; ECHA IUCLID)

Reproductive / developmental studies:	(3-(2,3-Epoxypropoxy)propyl) trimethoxysilane: NOAEL 1500 mg/kg/day (rat, oral; ECHA IUCLID)

Study results are literature data for each substance as supplied, cited to their source; they are evidence for the classification above, not a classification of this mixture.

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Component	Fish	Invertebrate	Algae
Silane	LC50: 55 mg/l (nominal), Cyprinus carpio (Carp), 96h, semi-static, OECD 203; EC50: 324 mg/l (nominal), Daphnia (water flea), 48h, static, no guideline; EC50: 473 mg/l (nominal), Daphnia magna, 48h, static, OECD 202; ErC50: 350 mg/l (nominal), Pseudokirchneriella subcapitata (green algae), 96h, static, OECD 201; NOEC (Growth rate): 130 mg/l (nominal), green algae, 96h, OECD 201; EC10 (Respiration inhibition): >100 mg/l (nominal), activated sludge, 3h, OECD 209; NOEC (reproduction rate): >=100 mg/l (nominal), Daphnia magna, 21d, semi-static, OECD 211	Not determined	Not determined

Component values are literature data for each substance as supplied; they are not measurements on this mixture.

12.2 Persistence and degradability

Not readily biodegradable: 37% / 28 d (DOC-decrease test, OECD 301A). Product of hydrolysis (Methanol) is readily biodegradable. Hydrolysis half-life: 6.5 h at pH 7, 24.5°C; 0.15 h at pH 5, 24.5°C; 0.13 h at pH 9, 24.5°C (OECD 111)

12.3 Bioaccumulative potential

Bioaccumulation potential not determined.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

none known

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Methods:	Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.
Regulatory Requirements:	Consult local waste disposal authority for approved disposal methods. Characterize the waste against applicable hazardous-waste regulations (e.g. US RCRA 40 CFR 261, EU Directive 2008/98/EC) before disposal.
Contaminated Packaging:	Handle uncleaned containers like the product itself. Do not reuse.

SECTION 14 — TRANSPORT INFORMATION

Not regulated as dangerous goods (DOT / IATA / IMDG).
Transport classification is an informational estimate. Confirm with a certified dangerous goods specialist.

SECTION 15 — REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the mixture

TSCA: Components are expected to be listed on or exempt from the TSCA Inventory (40 CFR 710); inventory status was not individually screened — verify during qualified review.

SARA 311/312 Hazardous Chemical: Yes — Serious eye damage or eye irritation; Germ cell mutagenicity.

SARA 302 (EHS): No Extremely Hazardous Substances (40 CFR 355 App A) identified. Component(s) without a CAS number were not screened — verify manually.

SARA 313 (TRI): This product does not contain any substances subject to SARA Title III Section 313 reporting requirements.

CERCLA / Superfund: No components with CERCLA (40 CFR 302.4) Reportable Quantities identified.

California Proposition 65: No Proposition 65 listed chemicals identified in this product.

State Right-to-Know (RTK):

State	Law / Regulation	Status
New Jersey	NJ Worker & Community RTK Act	No listed chemicals identified.
Massachusetts	MA Right to Know Law	No listed chemicals identified.
Pennsylvania	PA Worker & Community RTK Act	No listed chemicals identified.
Minnesota	MN Employee Right-to-Know Act	No listed chemicals identified.
All Other States	OSHA HCS 2024 (29 CFR 1910.1200)	This SDS satisfies federal HazCom RTK requirements.

Chemical inventories: Canada DSL: not screened (no CAS) | Australia AIIC: not screened (no CAS)

SECTION 16 — OTHER INFORMATION

Issue Date: 2026-10-07

Version: 1.0

Jurisdiction: United States

Status: Reviewed & approved

Prepared By: Legacy Industrial. Reviewed and approved by ConDetail on 2026-10-07.

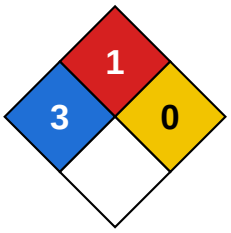
Format: OSHA HCS 2024 (29 CFR 1910.1200)

Key Sources: Supplier SDSs; ECHA (CLP Annex VI harmonised classifications, C&L notifications, registration dossier studies); UN GHS; OSHA Appendices A & B; PubChem; NLM ChemIDplus and HSDB; EPA ECOTOX (aquatic toxicity); EPA ToxValDB (toxicity values); EPA DSSTox (substance identity); IARC Monographs

NFPA 704 rating: Health 3 · Flammability 1 · Instability 0 · Special: none

HMIS III rating: Health 3* · Flammability 1 · Physical Hazard 0 · PPE D

NFPA 704



HMIS III

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

NFPA 704 and HMIS III ratings are derived from the GHS classification in Section 2 and the flash point in Section 9 (0 = minimal, 4 = severe; * = chronic health hazard; PPE letter per the HMIS index, see Section 8). They are supplementary and not a substitute for the label elements.

Prepared by Legacy Industrial Products LLC. Format: OSHA HCS 2024 (29 CFR 1910.1200).