

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name XL-1000 Crosslinker

Other means of identification

Product Code 2.4.012

Synonyms Crosslinker

Recommended use of the chemical and restrictions on use

Recommended Use: Water-borne coatings; Cross-linking agent.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Leather Refinishing Technologies
529 Caboose Drive
Quakertown, PA 18951 USA

Emergency Telephone Number

Company Phone Number (215) 536-0625

Emergency Telephone Number (267) 228-5682

2. HAZARDS IDENTIFICATION

Classification


OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 3
Skin sensitization	Category 1

Label Elements

Emergency Overview

Warning		
Hazard statements May cause an allergic skin reaction Causes mild skin irritation		
		
Appearance light yellow	Physical State Liquid	Odor characteristic

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Mild skin irritant

Other information

• May cause eye irritation.

Unknown Acute Toxicity

39.6% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients not listed in this section are non-hazardous or proprietary.

Synonyms

Crosslinker.

Chemical characterization

Mixture.

Chemical nature

Mixture: aqueous solution.

Chemical name	CAS No.	Weight-%	Trade secret
Multifunctional polycarbodiimide	Proprietary	15 - 40	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Components not listed in this section are non-hazardous or proprietary.

4. FIRST AID MEASURES

Description of first aid measures**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.

Skin Contact

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.

Ingestion

If sprayed in mouth, rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If swallowed, get medical help or contact a Poison Control Center right away.

Most important symptoms and effects, both acute and delayed**Symptoms**

Itching. Burning.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Carbon dioxide (CO2). Foam.

Large Fire Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating gases and vapors. Heating of containers may cause pressure rise, with risk of bursting.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with the skin and the eyes.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for Containment Contain spill with inert material (e.g. sand, silica gel, binder).

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Store in original container.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

Skin and body protection Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	characteristic
Appearance	light yellow	Odor threshold	No information available
Color	light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>
pH	11.4	Determined
Melting point / freezing point	Not applicable	No information available
Boiling Point / Boiling Range	100 °C / 212 °F	Estimated
Flash Point	Not applicable	
Specific gravity	1.04	Determined
Water solubility	Miscible with water	Literary reference
Kinematic viscosity	No information available	No information available
Dynamic viscosity	70.0 cPs	Determined
Explosive properties	Not explosive.	
Oxidizing properties	No information available	

Other information

Molecular weight	No information available
VOC Content (%)	0%
Density	1.04 g/cm ³

10. STABILITY AND REACTIVITY

Reactivity

Reacts with active hydrogen-containing compounds, such as carboxylic acids, amines and alcohols. Literary reference

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization may occur upon depletion of inhibitor - may cause heat and pressure build-up in closed containers.

Conditions to Avoid

Do not freeze. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

No acute toxicity information is available for this product

Eye Contact

Irritating to eyes.

Skin Contact

May cause skin irritation and/or dermatitis.

Ingestion

May be harmful if swallowed.

Component Information**Information on toxicological effects****Symptoms**

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Irritating to skin.

**Serious eye damage/eye irritation
Irritation**

May cause eye irritation.

Irritating to eyes and skin.

Sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA.

Reproductive Effects

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product Information**Unknown Acute Toxicity**

39.6% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No information available

39.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Waste Disposal Methods**

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Dispose of contents/container in accordance with local regulation. Should not be released into the environment.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

ICAO/IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Complies

IECSC - China Inventory of Existing Chemical Substances

Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous**Categorization**

Refer to Section 2 of SDS for applicable GHS hazard categories for SARA reporting purposes.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This product does not contain any chemicals subject to reporting requirements (RQ) of CERCLA (40 CFR 302.4).

U.S. State Regulations

California Proposition 65

This product contains one or more substances listed on California Proposition 65.

State Right-to-Know

This product does not contain substances subject to state right-to-know regulations.

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 0	Instability 1
HMIS	Health hazards 2	Flammability 0	Physical hazards 0

Prepared By	Regulations Manager
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Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet