



MATERIAL SAFETY DATA SHEET

Prepared in accordance with OSHA1910.1200 and ANSI Z400.1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ACC-4202

MANUFACTURER: Crosslink
ADDRESS: 950 Bolger CT
St. Louis, MO 63026
USA

Phone: (636) 349-0050 **Fax:** (636) 349-0003

Website: www.crosslinkusa.com

2. HAZARDS IDENTIFICATION

Liquid with an ether-like odor.

EMERGENCY OVERVIEW: May cause eye, skin and respiratory irritation. Inhalation of vapors or mists may cause headache, dizziness, nausea and other symptoms of central nervous system depression. May be absorbed through the skin. Prolonged overexposure may damage the nervous system, blood and blood forming organs, kidneys and liver.

US OSHA Hazard Classification: Irritant, Target Organ Effects

EU Preparation Classification (1999/45/EC): Not classified as a dangerous preparation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS# / EINECS#	%	EU Classification (67/548/EEC)
2-Butoxyethanol	111-76-2/203-905-0	5-10	Xn, Xi R20/21/22, R36/38
Diethylene Glycol Butyl Ether	112-34-5/203-961-6	1-5	Xi, R36
Diethylene Glycol	111-46-6/203-872-2	1-5	Xn R22
Water and other non-hazardous components	Mixture	Balance	Not classified

See Section 16 for further information on EU Classification.

4. FIRST AID

INGESTION: If the patient is conscious, rinse mouth with water. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Remove contaminated clothing and wash with plenty of soap and water. Get medical attention if irritation or other symptoms develop. Launder contaminated clothing before reuse.

EYE CONTACT: Rinse immediately with plenty of water for 15 minutes, while lifting the eyelids. Get medical attention if irritation persists.

INHALATION: Remove affected person from source of exposure. If breathing is difficult or symptoms of irritation persist, get medical attention.

ND = No Data

NA = Not Applicable



5. FIRE AND EXPLOSION DATA

BASIC FIREFIGHTING PROCEDURES: This product is not flammable or combustible. Use any media that is appropriate for the surrounding fire. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition products may be hazardous.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and sulfur and unknown materials.

6. ACCIDENTAL RELEASE MEASURES

Spill: Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area. Cover with and inert absorbent material and collect into an appropriate container for disposal. Report spills and releases as required to appropriate authorities.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing vapors, aerosols and mists. Use only with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers closed when not in use.

STORAGE: Keep container tightly closed. Store in cool, dry, area away from excessive heat and incompatibles.

EMPTY CONTAINERS: Empty containers may contain product residue and may be dangerous. Follow all MSDS precautions in handling empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

EXPOSURE LIMITS

Chemical Name	Exposure Limits
2-Butoxyethanol	20 ppm TWA skin (TLV), 50 ppm TWA skin (PEL) 10 ppm TWA skin DFG MAK 25 ppm TWA, 50 ppm STEL UK WEL
Diethylene Glycol Butyl Ether	100 mg/m ³ DFG MAK
Diethylene glycol	10 ppm TWA AIHA WEEL 10 ppm TWA DFG MAK

ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to minimize exposure levels. General ventilation is expected to be adequate unless product is heated or aerosols are formed in use.

EYE PROTECTION: Chemical safety goggles recommended.

SKIN PROTECTION: Avoid prolonged or repeated skin contact. Impervious gloves such as nitrile, neoprene or rubber are recommended.

RESPIRATORY PROTECTION: If needed, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures (greater than 10 times the exposure limit), a supplied air respirator may be required.



Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and ANSI Z88.2 in the US, local regulations and good Industrial Hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: Liquid with an ether-like odor.

BOILING POINT: >100° C

SPECIFIC GRAVITY: 8.45 lb./gallon

MELTING POINT: ND

SOLUBILITY IN WATER: Soluble

pH: 2.8

VOC: 1.11 lb/gallon

FLASH POINT: >200° F (93.3° C)

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITY: Strong acids, strong bases, oxidizing agents, amines.

CONDITIONS TO AVOID: Heat, flames, hot surfaces and all other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide, carbon dioxide, oxides of sulfur and nitrogen and unknown materials.

11. TOXICOLOGICAL INFORMATION

PRODUCT HEALTH HAZARD INFORMATION

SKIN: Contact with the liquid may cause irritation of the skin. May be absorbed through the skin to cause effects similar to inhalation and ingestion.

EYE: Contact may cause moderate irritation of the eyes.

INHALATION: Inhalation of vapors may cause mucous membrane and respiratory irritation with coughing or difficult breathing. High concentrations may cause nausea, vomiting, headache, dizziness, and other symptoms of central nervous system depression.

INGESTION: May cause irritation of the mouth and gastrointestinal tract with nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage. Ingestion of 2-butoxyethanol may cause damage to the blood, liver and kidneys. Ingestion of diethylene glycol may cause liver and kidney damage.

CHRONIC HEALTH EFFECTS: Chronic overexposure to the solvents in this product may damage the blood and blood forming organs, kidneys and liver. None of the components of this product are listed as a carcinogen by IARC, NTP, or OSHA.

ACUTE TOXICITY VALUES

2-Butoxyethanol: Rat oral LD₅₀ = 470-3000 mg/kg; Rabbit dermal LD₅₀ = 220-612 mg/kg; Rat inhalation LC₅₀ = 450 ppm/4 hr

Diethylene glycol: Rat oral LD₅₀ = 12565 mg/kg; Rabbit dermal LD₅₀ = 11900 mg/kg

Diethylene glycol butyl ether: Rat oral LD₅₀ = 5660 mg/kg; Rabbit dermal LD₅₀ = 2700 mg/kg

ND = No Data

NA = Not Applicable



12. ECOLOGICAL INFORMATION

The ecological effects of this product have not been determined. The solvents in this product are not classified as toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORTATION REQUIREMENTS

DOT PROPER SHIPPING NAME: Not regulated
DOT HAZARD CLASS: None
UN NUMBER: None
DOT LABELS REQUIRED: None

IATA PROPER SHIPPING NAME: Not regulated
IATA HAZARD CLASS: None
UN NUMBER: None
IATA LABELS REQUIRED: None

15. REGULATORY INFORMATION

SARA TITLE III INFORMATION:

Section 311/312 (40 CFR 370) **Hazard Categories:** Acute health, chronic health,

Section 313 (40 CFR 372): This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

2-Butoxyethanol (glycol ether compound)	5-10%
Diethylene glycol butyl ether (glycol ether compound)	1-5%

Section 302 (40 CFR 355): This product contains no chemicals listed as extremely hazardous chemicals under SUPERFUND Amendments and Reauthorization Act (SARA).

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA spill reporting requirements. Many states and local authorities have more stringent spill reporting requirements. Report releases as required by state, local and federal requirements.

EPA TSCA: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contains traces of ethyl acrylate, acrylamide and formaldehyde, which are known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

China:

European Inventory of Commercial Chemical Substances: All of the components of this product are listed on, or notified for, the EINECS or ELINCS inventory.

Japan:

