

WSCP 1500

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SECTION 1

OSHA HAZARD CLASSIFICATIONS

Irritating to eyes.

SECTION 2

HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>TLV</u>
[REDACTED] Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	31512-74-0	15	Not available.

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

SECTION 3

FIRST AID INFORMATION

Eye Exposure: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin Exposure: Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

Ingestion: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

[REDACTED]

SECTION 4

PRIMARY ROUTES OF EXPOSURE**Effects from Acute Exposure:**

Eye Exposure: Hazardous in case of eye contact (irritant).

Skin Exposure: Non-irritant to skin. Non-sensitizer to skin.

Inhalation: Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Ingestion: Ingestion is not expected to be a primary route of exposure.

2. Effects from Chronic Exposure:

Chronic feeding studies on the active ingredient did not reveal any significant adverse effects.

SECTION 5

Toxicological Information**Acute Effects:**

Not tested, but not expected to be hazardous based on similar products.

Irritant / Sensitization Effects:

Hazardous in case of eye contact (irritant).

Non-irritant to skin. Non-sensitizer to skin.

Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Target Organs Effects:

May cause damage to the following organs: upper respiratory tract, eyes.

Other Health Effects:

None known.

SECTION 6

Environmental Toxicological Information

No information available.

SECTION 7

Physical and Chemical Properties

Appearance	Clear yellow liquid
Odor	Slight.
Density	1.03 g/cm ³ (25°C / 77°F)
Flash Point	Closed cup: >100°C (212°F). (Pensky-Martens.)
Melting/Freezing Point	Not available.
Boiling Point	>100°C (212°F)
Solubility	Easily soluble in cold water. Easily soluble in hot water.
pH (Neat)	6 [Acidic.]
(100 ppm in water)	6-7
Vapor Pressure	Not available.
o/w Partition Coefficient	Not available.

Oxidizing/Reducing Properties . Not available.

Viscosity Not available.

Additional pH Information The pH of the neat product ranges from 5-7.

NOTE: The physical data presented above are typical values and should not be construed as specifications.

SECTION 8

Fire and Explosion Information

Flammable Limits Not available.

Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

Special Firefighting Procedures Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 9

Reactivity Information

Stability Stable under normal conditions of use and storage.

Incompatibility None known.

Hazardous Decomposition Products Oxides of carbon and nitrogen.

SECTION 10

Handling Precautions

Rubber gloves and safety glasses or goggles are recommended.

Eye-wash fountains in the work place are recommended.

Additional handling precautions for this product are based on the characteristics of the neat product unless otherwise specified.

SECTION 11

Satisfactory Materials of Construction

Plexiglas

Teflon

Polypropylene

Buna-N rubber

Viton

EPDM rubber

PVC - flexible

Neoprene

Fiberglass

Polyethylene - low density

Tygon

Tyrl 880

Van leer epoxy liner 136

Gum rubber

Hypalon

Aluminum 5052 H34

Silicone rubber

NOTE: With respect to all other materials not listed above, user should be aware that use of such materials with

this product may be hazardous and result in damages to such materials and other property and personal

injuries.

No data concerning such materials not listed above should be implied by the user.

This product has not been tested for Materials of Construction. However, based on the chemical composition and results from more concentrate products, we believe this product will be compatible with the materials listed in this section.

SECTION 12***Spill, Leak, and Disposal Procedures*****SPILL AND LEAK RESPONSE GUIDELINES:**

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Emergency Response Assistance: Emergency technical assistance is available at any time from Buckman Laboratories, Inc., by calling (901) 767-2722.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Buckman Laboratories, Inc. can be contacted for technical assistance. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident, may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or dumping spills or leaks of this product to the industrial sewer.

DISPOSAL GUIDELINES

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact your Buckman representative or Buckman Laboratories, Inc., at (901) 278-0330.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

SECTION 13***Transportation and Shipping Information******DOT Shipping Information:***

DOT (Ground shipments only): Not Regulated. ----- **IATA (Air shipments):** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Cationic polymer), Class 9, PG III, MARINE POLLUTANT, (ERG Guide 171, ERG Code 9L)

IO/IMDG Shipping Information:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Cationic polymer), Class 9, P.G. III, MARINE POLLUTANT, (EmS No. F-A, S-F, ERG Guide 171, HazMat Code 4960131)

Shipping Information:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Cationic polymer), Class 9, P.G. III, MARINE POLLUTANT, (ERG Guide 171, ERG Code 9L)

DOT "RQ": NONE

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Buckman locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Buckman's Transportation Department or DOT Coordinator.

SECTION 14

Regulatory Information

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances List ...

No components of this product are listed.

SARA 312 Hazard Category ...

Immediate (Acute) Health Hazard

SARA 313 Toxic Chemicals List ...

No components of this product are present above the *de minimus* levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

No components of this product are present above the *de minimus* levels.

RCRA (Resource Conservation and Recovery Act) Listed Hazardous Waste

No components of this product are listed.

CWA (Clean Water Act) Listed Substances

No components of this product are listed.

FDA (Food and Drug Administration)

This product is not allowed for food contact uses.

Bundesinstitut für Risikobewertung (BfR) (The Federal Institute for Risk Assessment)

Not available.

TSCA (Toxic Substances Control Act) Applicability

All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

This product is a registered pesticide. EPA Reg. No. 1448-212

HMIS/NPCA Rating ... Health 1 Flammability 1 Reactivity 0

NFPA Ratings Health 1 Flammability 1 Reactivity 0

ate Regulations

Various State Right To Know Acts ...

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary or inert ingredients please contact Buckman Laboratories' Regulatory Affairs Department.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations. While some components are claimed Trade Secret under OSHA Hazard Communication regulations, all known OSHA hazards associated with the Trade Secret component(s), if contained in this product, are fully disclosed.

Buckman Laboratories, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settle by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgement upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Health & Environmental Profile


TP-POLY-O-KDD/CFW (3/99)

WSCP

60% - Poly[oxyethylene(dimethyliminio)ethylene
(dimethyliminio)ethylene dichloride]

Fish and Wildlife Toxicity





48-Hour LC50 in Invertebrates:

 *Daphnia magna*: [Test 1] 0.37 mg a.i./L (static)
[Test 2] > 7.5 mg a.i./L (water supplemented with
either 10 or 20 mg/L of humic acids.)

96-Hour LC50 in Fish:

Freshwater

Oncorhynchus mykiss
Lepomis macrochirus

Rainbow trout:  0.047 mg a.i./L (static)
Bluegill sunfish:  [Test 1] - 0.21 mg a.i./L (std laboratory water)
 [Test 2] - 6.7 mg a.i./L (natural river water)
Fathead minnow:  0.26 mg a.i./L (static)

Saltwater

Mysid Shrimp: 13 mg/L (static)
Sheepshead minnow: > 600 mg/L (static)
Quahog clam: 0.35 mg/L (static)

Chronic/Reproduction - *Daphnia magna*

16 Day LC50 1.3 mg a.i./L
16 Day EC50 >1.0 mg a.i./L
NOEC 1.0 mg a.i./L

The information on this Data Sheet reflects the latest toxicological information and data that we have on this product. However, no representation or warranty of any kind, express or implied, is made as to this Data Sheet or the contents hereof, and no such warranty shall be implied by law. The exclusive remedy against Buckman Laboratories International, Inc. for any cause of action relating to this Data Sheet is a claim for damages not to exceed any price paid for the Data Sheet, without regard to whether any such claim is based upon breach of warranty or tort.