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Material Safety Data Sheet

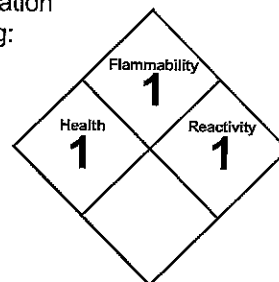
SECTION I • PRODUCT IDENTIFICATION

Trade Name: Algatec®
Product Code: #10064
MSDS Date: 08-30-00
Supercedes: 02-15-99
CAS Number: #31512-74-0
OSHA Hazard: Eye irritant
DOT Hazard Class: Non-hazardous.
EPA Reg. No. #46978-4

NFPA Designation

Hazard Rating:

4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal



SECTION II • HAZARDOUS INGREDIENTS

Ingredient Information:

1. Poly[oxyethylene(dimethyliminio) ethylene(dimethyliminio)ethylene dichloride], CAS Reg. 31512-74-0, active composition - 30%

The balance of the components comprises proprietary trade secret information.

SECTION III • PHYSICAL CHARACTERISTICS

PHYSICAL FORM: Liquid
COLOR : Blue
ODOR: Mild odor
pH (as is): 5.5 to 7.0
BOILING POINT: > 100 °C (> 212 °F)
MELTING POINT: Below 0 °C
SPECIFIC GRAVITY: 1.075
SOLUBILITY IN WATER: Miscible water in all proportions
EVAPORATION RATE: < 1
VAPOR PRESSURE: Not relevant

SECTION IV • FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable
FLAMMABLE LIMITS: Lower: N/A Upper: N/A
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, and dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE HAZARDS: None

SECTION V • REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY:
HAZARDOUS DECOMPOSITION
PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI • HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Eye, Skin, Ingestion, Inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

Acute Effects Of Exposure:

1. Eye Contact: Possible eye irritant. Minimal ocular irritation is expected. Irritation will depend on length of exposure, solution concentration and first aid measures.
2. Skin Contact: Non-irritating to the skin
3. Ingestion: No data is available on human ingestion. Based on information from animal studies, no adverse effects are expected.
4. Inhalation: May cause irritation of mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis or pneumonia

Chronic Effects Of Exposure:

The effects from chronic exposure to Algatec have not been fully evaluated. Algatec has tested negative in both animal and human sensitization tests. In vitro mutagenicity tests on **Algatec** have been negative. Birth defects are unlikely, animal tests were negative.

CARCINOGENICITY: No data is available
MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE: None known

EXPOSURE LIMITS: Not established for this product.

FIRST AID MEASURES:

EYE CONTACT: Flush immediately with copious amount 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 CONTACT: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional.

INGESTION: DO NOT INDUCE VOMITING. Rinse mouth 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.

INHALATION: Move the exposed individual to fresh air. If individual is cyanotic or has difficulty breathing administer oxygen, if available. Treat symptoms.

SECTION VII • PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CSE MATERIAL IS RELEASED OR SPILLED:

Initially minimize area effected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Recover as much of the pure product as possible. Later, determine if this recovered **Algatec** 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 or flushed to sewer depending on amount of residual and type of sewer system. Generally this product may be disposed into municipal sewer system with water.

Based on the products 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.). Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required.

WASTE DISPOSAL METHOD:

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

Spills or Leak Residuals, Contaminated Materials: Determine if waste containing this product can be handled by available effluent system or other on-site waste management unit (e.g. incinerator, deep well, etc.). If off-site management is required, contact a company experienced in industrial waste management.

Empty containers of this product are not hazardous wastes. Triple rinse container before discarding and do not reuse empty container.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep container closed when not in use. Keep product from freezing. Keep product away from children.

SECTION VIII • CONTROL MEASURES

RESPIRATORY PROTECTION: None

VENTILATION: Normal room ventilation

EYE PROTECTION: Safety glasses or goggles

PROTECTIVE GLOVES: Impervious or rubber gloves

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK / HYGIENIC PRACTICES: Handle in accordance with good hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.