

MATERIAL SAFETY DATA SHEET

MSDS Q-120 REVISION 3

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SUBSTANCE IDENTIFICATION

SUBSTANCE: GERMICIDE SOLUTION

TRADE NAMES/SYNONYMS: **GERMICIDE SOLUTION: TRICLOSAN / LAURAMIDE DEA SOLUTION**

CHEMICAL FAMILY: Mixture

I.D. NUMBER: 901703

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: DIETHANOLAMINE CAS# 111-42-2
2 mg/m³ ACGIH TWA (skin)

COMPONENT: LAURAMIDE DEA CAS# 120-40-1

COMPONENT: TRICLOSAN CAS# 3380-34-5

Carcinogen status of components: Not listed as carcinogenic by NTP, IARC, or OSHA.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: Clear, light amber viscous solution with a mild, typical fatty amide odor.

SPECIFIC GRAVITY: Not determined. pH (10% solution): ~ 10.0-11.0.

SOLUBILITY IN WATER: Dispersible.

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - Negligible fire hazard when exposed to heat or flame.

FIRE FIGHTING MEDIA - Dry chemical, carbon dioxide, water spray or regular foam.

FIRE FIGHTING - Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Extinguish only if flow can be stopped; use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing vapors, keep upwind.

HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the solution. They are based on the toxicology information available each hazardous ingredient, and are consistent with the solution type and the

likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

- INHALATION:** Unlikely to occur due to the physical properties of the solution.
- SKIN CONTACT:** May be irritating and absorbed through the skin. Repeated or prolonged contact may cause sensitization, contact dermatitis and possibly burns.
- EYE CONTACT:** May cause irritation, with possibility of burns and eye damage.
- INGESTION:** May cause gastrointestinal irritation with nausea, vomiting, diarrhea, and stomach pain.

CHRONIC HEALTH EFFECTS:

Due to the nature and composition of this solution, no subchronic/chronic health effects are anticipated. Nonetheless, the following effects have been reported for one of the solution components:

Triclosan: High-dose oral studies in animals have shown the liver to be a target organ. Dermal studies have not shown any systemic toxicity.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, bases, metals, nitrosating agents and sodium hypochlorite (bleach).

DECOMPOSITION - Thermal decomposition may release toxic and/or hazardous gases, including hydrogen chloride, chlorine, and oxides of carbon and nitrogen.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store away from incompatible substances and excessive heat. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

Avoid contact with excessive heat and incompatible substances.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away; isolate hazard area and restrict entry.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where vapors or mists may be generated.

RESPIRATOR - Air contamination monitoring should be carried out where vapors or mists are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where splashing of product may occur.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION: Not applicable.

EPA - SARA TITLE III, SECTION 313: Toxic chemical -Yes: Diethanolamine is present at approximately 9.3% in the mixture.

TSCA: All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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MSDS CREATION DATE: 07/08/96
SUPERSEDES: Rev. 2; 07/02/98
REVISION DATE: 03/30/05

REVISION: Updated address information, hazardous ingredient information, physical and chemical data, fire and explosion data, health hazard data and storage and disposal.