



MATERIAL SAFETY DATA SHEET

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CHEMCIDE

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: CHEMCIDE
Chemical Family: N-alkyltrimethylenediamine acetate
WHMIS Classification: Not applicable
Workplace Hazard: Skin & eye irritant, chronic toxic effects

Product Use: Bacteriacide
TDG Classification: Not applicable
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Rat/Oral)	LC ₅₀ (Species/Route)
N-coco alkyltrimethylenediamine diacetates	10-30	61791-64-8	1.7 mL/kg	-
Ethylene Glycol	15-40	107-21-1	4700 mg/kg	

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Prolonged contact may cause moderate to severe eye irritation, moderately irritating to skin, prolonged contact may cause irritation with redness, severe swelling and blistering. May cause severe irritation or burns of mouth, throat or stomach if ingested. Heated vapours or mists inhaled may irritate nose, throat and lungs.

Effects of chronic exposure: May cause irritation, burn possible sensitization to skin; possible allergic reaction, hives, erythmemea

Exposure limits: Not available

Irritancy of product: To skin, may take 24 - 48 hours to develop.

Sensitization to product: Vapours may cause irritation redness, tearing, blurring to eyes

Carcinogenicity: No information is available

Reproductive toxicity: No information is available

Teratogenicity: Ethylene Glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentration dosages.

Mutagenicity: No information available

Name of toxicological synergistic products: No information is available



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SECTION IV: FIRST AID MEASURES

Skin contact: Remove contaminated clothing and wash thoroughly with soap and water. If irritation persists, or develops, obtain medical attention.

Eye contact: Immediately flush with gently flowing, warm water for at least 15 minutes. Remove contact lenses if present. Hold eyelids apart to ensure thorough flushing. Do not attempt to neutralize with chemical agents. When flushing is complete and no further irritation is observed, obtain medical attention.

Inhalation: Move to area free from contaminants. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, obtain medical attention.

Ingestion: Do not induce vomiting. If conscious, rinse mouth and give 1 to 2 glasses of water to drink. If vomiting occurs, keep head below hips to prevent aspiration, and give more water. Obtain immediate medical attention. Never give anything by mouth unless victim is fully conscious.

SECTION V: PHYSICAL DATA

Physical state: Liquid

Appearance and odour: Cloudy yellowish-orange liquid, vinegar odour

Odour threshold: Not available

Specific gravity: 1.05

Vapor pressure (mmHG): <1 @ 20 C

Vapor density (Air=1): 2.14 (ethylene glycol)

Evaporation rate: <1 (butyl acetate=1)

Boiling point (°C): Not determined

Freeze/Melting point (°C): Not determined

pH: 8

Co-efficient of water/oil distribution: Slightly soluble



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Vapour forms explosive mixture between lower and upper flammable limits. This product may burn under fire conditions.

Means of extinguishing: Water, fog, foam, CO₂, dry chemical.

Flash point: > 100 C (PMCC)

Upper flammable limit: 15.3 % (ethylene glycol)

Lower flammable limit: 3.2 % (ethylene glycol)

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explosion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static discharge: Not available

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizers, strong acids, acid chlorides, CrO₃ and hydrogen peroxide

Conditions of reactivity: Not available

Hazardous decomposition products: Oxides of carbon, oxides of nitrogen, hydrogen chloride and possibly hydrogen cyanide



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest neoprene gloves, eye goggles, impervious rubber apron and approved organic respirator in absence of proper ventilation. Do not wear contact lenses when handling this material.

Specific engineering controls: Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of airborne contaminants below TLV.

Procedures for leak/spills: Use appropriate safety equipment. Eliminate ignition sources. Stop leak if possible to do so without risk. Small spills: soak up with absorbent material; collect used absorbent material in approved containers for disposal. Large spills: dike to prevent spread; collect diked material with vacuum truck; collect contaminated material in approved containers for disposal; treat remaining material as a spill. Wash spill area thoroughly with water. This product is toxic to fish. Ensure spilled material does not enter storm sewers or public waterways.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. It is responsibility of the end user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers that have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled in accordance with local regulations.

Handling procedures and equipment: Avoid ingestion. Avoid skin and eye contact. Practice caution and personal cleanliness. Ensure eyewash station and emergency shower are available.

Storage requirements: Store in cool, dry area from incompatibles and ignition sources. Keep container tightly closed when not in use. Store unused material in original container. Follow all directions for use given on container. Store and handle empty containers as if full.

Special shipping information: Not specified.

SECTION IX: PREPARATION

Date updated: June, 2008

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.