

UNITED C309



MATERIAL SAFETY DATA SHEET

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To Reorder Call:
800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
24 Hour INFOTRAC (US and CANADA): 800-535-5053

PRODUCT NAME
UNITED C309 MICROBIOCIDAL

USE/DESCRIPTION
Microbicide for Cooling Towers and Air Washers

REVISION DATE
March 4, 2008

HEALTH (0 = Maximum Safety)

2

Always follow Label Directions and Cautions.

4 Extreme 3 High 2 Moderate 1 Slight 0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

FLAMMABILITY (0 = Maximum Safety)

0

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated
3 Ignites at normal temperature. to burn.
2 Ignites when moderately heated. 0 Will not burn.

REACTIVITY (0 = Maximum Safety)

1

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire. 2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers. 1 Unstable if heated-use precaution.
0 Normally stable.

PERSONAL PROTECTION: 0



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Potassium dimethyl dithiocarbamate	128-03-0	8-11	NE	NE	375 mg/Kg (Rat/oral)	NE

3. HAZARDS IDENTIFICATION

Eyes: May cause moderate to severe irritation depending on the length of exposure.

Skin: May cause mild to severe irritation depending on the length of exposure.

Inhalation: Prolonged breathing of vapors may cause dizziness and/or nausea.

If Swallowed: Harmful. May cause upset stomach, nausea.

4. FIRST AID MEASURES

Eyes: Flush with clean, cool water for at least 15 minutes or longer till irritation subsides. See a physician if irritation occurs.

Skin: Wash with a mild soap and water. See a physician if irritation occurs. Remove and wash contaminated clothing (including shoes) before reuse.

Inhalation: Use proper respiratory protection to immediately remove the affected person from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Get prompt medical attention.

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 all cases, seek immediate medical assistance or contact the Poison Control Centre.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): > 212°F/>100°C

Explosive Limits: Lower (LEL): ND Upper (UEL): ND

Flame Projection (Aerosol): N/A

Hazardous Products of Combustion: When strongly heated, as in a fire, this product may produce oxides of sulfur, nitrogen and carbon.

Fire and Explosion Hazards: Heating may cause release of hazardous fumes such as sulfur.

Extinguishing Media: Water fog, Dry chemical, Foam, Carbon dioxide.

Fire Fighting Instructions: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Absorb spills with sawdust or sand. Place in corrosion resistant container for proper disposal.

Large Spills: Absorb spills with sawdust or sand. Place in corrosion resistant container for proper disposal.

7. HANDLING AND STORAGE

Keep this product in properly labeled, tightly closed containers. Do not expose to extreme temperatures. Leaking or damaged drums should be placed in over-pack drums for disposal. Remove contaminated clothing immediately and wash thoroughly with soap and water before reusing. Wash hands and face with soap and water after using of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical safety goggles recommended.

Skin: Chemical resistant gloves recommended.

Respiratory: None required if good ventilation is maintained. If TLV is exceeded, use a NIOSH/MSHA approved respirator.

Engineering Controls: Provide adequate ventilation and local exhaust is generally adequate.

Other Protective Clothing or Equipment: Shirts with long sleeves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: >212°F/>100°C **Specific Gravity:** 1.05 (H₂O=1) **Vapor Pressure:** ND **Melting Point:** ND
Vapor Density: ND **Evaporation Rate:** ND **Solubility in Water:** Complete **pH:** 11.5-12.5
Appearance and Odor: Clear, green liquid with ammonium sulfide odor.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Carbon disulfide and dimethylamine may be generated upon acidification. Thermal degradation may generate vapors of hydrogen sulfide. Contact with fire or strong oxidants may generate oxides of sulfur, nitrogen and carbon.

Chemical Stability: Stable

Incompatibility: Will react with strong acids.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial, and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request

TDG: Available upon request

UN: Available upon request

15. REGULATORY INFORMATION

VOC(Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: ND

SARA Title III Section 311/312: ND

SARA Title III Section 313 Toxic Chemicals: Potassium dimethyl dithiocarbamate CAS# 128-03-0 0.876 reportable material per gallon of United product

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED C309 MICROBIOCIDE

REVIEWED BY: Bob Brown