



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 91

USE/DESCRIPTION
 Concentrate Swimming Pool Algacide

REVISION DATE
 September 18, 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.

REACTIVITY (0 = Maximum Safety)

0

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. |

FLAMMABILITY (0 = Maximum Safety)

0

Susceptibility of Material to Burning.

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

PERSONAL PROTECTION: 0



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	5.0	NE	NE	NE	NE
Alkyl dimethyl ethyl benzyl ammonium chloride	85409-23-0	5.0	NE	NE	NE	NE
Ethanol	67-17-5	1-5	1000 ppm 1880mg/m3	1000 ppm 1900mg/m3	NE	NE

3. HAZARDS IDENTIFICATION

Eyes: Eye damage can result from direct contact.

Skin: May cause irritation. Prolonged contact may produce skin burns.

Inhalation: Vapors or mists may be irritating to mucous membrane of the nose, throat and lungs.

Ingestion: Can produce burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe.

4. FIRST AID MEASURES

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): None

Explosive Limits: Lower (LEL): None Upper (UEL): None

Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When ignited as in a fire, this product may produce toxic vapors or gases.

Fire and Explosion Hazards: Heating may cause release of hazardous gases.

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing. Keep containers cool and vapors down with water spray.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated.

Large Spills: Wear appropriate equipment and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). If possible contain spill and collect in a container for proper disposal.

7. HANDLING AND STORAGE

Keep this product in properly labeled, tightly closed containers. Store in cool, well-ventilated area away from sources of ignition. Avoid breathing vapor, spray or mist. Protect from freezing, as the drums or bottles may rupture or burst. After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety goggles are recommended.

Skin: Rubber or neoprene gloves, to prevent skin contact are recommended.

Respiratory: Not normally needed. In processes where mists or vapors may be generated, a NIOSH/MSHA respirator is advised. If TLV is exceeded, use a NIOSH/MSHA approved respirator.

Engineering Controls: Ventilation not usually necessary but should be provided in the event of overexposure.

Other protective Clothing: Shirts with long sleeves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: ~212°F/~100°C **Specific Gravity:** 0.99 (H₂O=1) **Vapor Pressure:** ND **Melting Point:** ND
Vapor Density: ND **Evaporation Rate:** ~ 1.0 **Solubility in Water:** Complete **pH:** 6 - 8
Appearance and Odor: Clear, colorless and odorless liquid.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: When ignited as in a fire, this product may produce toxic hydrogen chloride fumes, oxides of carbon and nitrogen.

Chemical Stability: Stable

Incompatibility: Strong oxidizers on reducing agents.

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, 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): 0.17 lbs per gallon of product

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: None

SARA Title III Section 311/312: ND

SARA Title III Section 313 Toxic Chemicals: None

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.