

R-0600

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0600
PRODUCT NAME: Orthotolidine
CHEMICAL FAMILY: Acidic aromatic halogen solution

2. INGREDIENTS

| INGREDIENT | CAS NO. | % | HAZARD |
|--------------------------------|-----------|--------|----------------|
| *Orthotolidine dihydrochloride | 612-82-8 | <1 | carcinogen |
| *Hydrochloric acid | 7647-01-0 | <10 | corrosive acid |
| Deionized water | 7732-18-5 | to 100 | |

*This chemical is subject to the reporting requirements of Title III
Section 313 and 40 CFR 372.

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, slight yellow None
BOILING PT (F): 212 pH: .01 SPECIFIC GRAVITY: 1.05
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): 3.5
PERCENT VOLATILE BY VOLUME: 99 SOLUBILITY IN WATER: Soluble

4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available)
breathing apparatus and special protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION: Contact with
metals may produce hydrogen gas. May emit toxic fumes of chlorine,
hydrogen chloride.
NFPA CODE: Health: 3 Flammability: 0 Reactivity: 0 Specific: CORR
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with metals,
alkalis, strong oxidizers.

5. HEALTH HAZARD DATA

INGREDIENT: Orthotolidine dihydrochloride
TOXICITY: LD50(ori-rat): 404 mg/kg
PEL: NE TLV: 2 ppm
STEL: NE

INGREDIENT: Hydrochloric acid
TOXICITY: LD50(ori-rbt): 900 mg/kg LC50(ihi-rat): 1.5 ppm/1H
PEL: 7 mg/m3 (ceiling) TLV: 7 mg/m3 (ceiling)
STEL: NE

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5. HEALTH HAZARD DATA - continued

ROUTE(S) OF ENTRY: Inhalation X Ingestion X Skin X

TARGET ORGAN(S): Eyes, skin, respiratory tract

CARCINOGENICITY: NTP Yes IARC Yes OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Corrosive. Contact may cause severe burns.

SKIN: Corrosive. Contact may cause severe burns.

INGESTION: Corrosive. May cause severe gastrointestinal irritation, cyanosis, headache, dizziness, burns of mouth, esophagus and stomach.

INHALATION: Irritant

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and respiratory conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses, lab coat, rubber apron, adequate ventilation.

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

STORAGE: Cool, dry, well-ventilated area. Avoid direct sunlight.

7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Wash skin thoroughly with baking soda, soap and water.

INGESTION: Give large amounts of water or large amounts of water with milk of magnesia. Call physician. DO NOT INDUCE VOMITING

INHALATION: Remove to fresh air. Call physician.

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash. Absorb with diatomaceous earth or other inert material. Containerize for later disposal.

DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable

ND = Not determined

NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

DATE PREPARED: Mar 1996