

EMS CATALOG NO: 12200 & 12201
EMS PRODUCT: Cacodylic Acid
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

SYNONYMS: **Cacodylic acid**
CHEMICAL NAME: Dimethylarsinic acid
CAS NO: 75-60-5
CHEMICAL FAMILY: Organo-arsenic
FORMULA: $(\text{CH}_3)_2\text{AsO}_2\text{H}$
MOLECULAR WEIGHT: 138

PHYSICAL DATA

BOILING POINT 760 mm Hg: > 250°C
SPECIFIC GRAVITY (H₂O=1): ~1.3 (bulk)
VAPOR DENSITY (air=1): n/a
PERCENT VOLATILES BY VOLUME: none
EVAPORATION RATE (Butyl Acetate=1): n/a
FREEZING POINT (m.p.): 195°
VAPOR PRESSURE AT 20°C: 10⁻⁵mm
SOLUBILITY IN WATER % BY WT @ 20°C: 45%
APPEARANCE AND ODOR: Colorless, odorless crystals,
white.

HAZARDOUS INGREDIENTS

Dimethylarsinic acid

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: non-flammable

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NA Oral LD₅₀: 1350 mg/kg for rats
EFFECTS OF OVEREXPOSURE: Burning of throat; colicky stomach pains
Garlicky odor of breath and/or skin.
EMERGENCY AND FIRST AID PROCEDURES:
EYE OR SKIN CONTACT: Wash copiously with water for 15 minutes.
If ingested, induce vomiting. Call a
physician immediately.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Strong reducing agents such as aluminum, zinc, sodium boro-hydride, sulfur dioxide.

INCOMPATIBILITY: Heavy metal salts may precipitate compound.

HAZARDOUS DECOMPOSITION

PRODUCTS: Reducing agents may release arsine gas.

HAZARDOUS POLYMERIZATION: Will not occur.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

If a large leak occurs, enclose leaker in larger drum (or transfer leaker to a new drum) and return to manufacturer. In case of a small spill, absorb on vermiculite or diatomaceous earth. Use gloves.

WASTE DISPOSAL METHOD:

Dispose of in an EPA approved landfill or send back to manufacturer. Small amounts may be buried in clay type soil away from water supplies. Use gloves.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None needed except for spray applicators.

PROTECTIVE GLOVES: Rubber or neoprene

LOCAL EXHAUST: Normal

MECHANICAL: Normal

EYE PROTECTION: Goggles or face shield

OTHER

PROTECTIVE EQUIPMENT: Rubber apron

SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING: Keep out of reach of children

OTHER HANDLING AND STORAGE CONDITIONS:

Ordinary precautions taken with poisonous chemicals