

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List)

EDTA

Product # 07 7051, 07 7052, 07 6011, 07 8050

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

| | |
|---|--|
| Manufacturer's Name KABE Labortechnik GmbH | Emergency Telephone Number 1-800-535-6734 |
| Address (Number, Street, City, State, and Zip Code) c/o RAM Scientific, Inc. | Telephone Number for Information 1-800-535-6734 |
| P.O. Box 586, 124 Crescent Road | Date Prepared 10/25/93 |
| Needham, MA 02194 | Signature of Preparer (optional) |

The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of any kind expressed or implied, is made with respect to the information presented and RAM Scientific, Inc. assumes no responsibility from the results of the use of this product. This information is furnished upon the condition that the person responsible for its use shall make his or her own determination of the suitability of the material for his or her particular purpose.

Section II - Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common Names(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|---|----------|-----------|--------------------------|--------------|
| EDTA - Ethylenediamine tetra acetic acid dipotassium salt dihydrate C ₁₀ H ₁₄ K ₂ N ₂ O ₈ - 2H ₂ O CAS #2001-94-7 | N.A. | N.A. | N.A. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Section III - Physical/Chemical Characteristics

| | | | |
|-------------------------|------|---|----------------|
| Boiling Point | N.A. | Specific Gravity (H ₂ O = 1) | N.A. |
| Vapor Pressure (mm Hg.) | N.A. | Melting Point | 225 - 228° dec |
| Vapor Density (AIR - 1) | N.A. | Evaporation Rate (Butyl Acetate = 1) | N.A. |

Solubility in Water

Lightly soluble in water. 1650 g/L at 22o C. pH 4.0-4.5 9 (1% in water)

Appearance and Odor

Clear liquid. No odor. White powdery crystals if exposed to air.

Section IV - Fire and Explosion Hazard Data

| | | | |
|--------------------------|-------------------------|-----|-----|
| Flash Point Flammable | Flammable Limits N.A | LEL | UEL |
|--------------------------|-------------------------|-----|-----|

Extinguishing Media

CO₂, foam, water, or dry chemicals

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

None

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Section V - Reactivity Data

| | | | |
|-----------|----------|---|--|
| Stability | Unstable | | Conditions to Avoid Product is flammable. Do not expose to heat or flame. |
| | Stable | X | |

Incompatibility (*Materials to Avoid*)

Hazardous Decomposition or Byproducts

None

| | | | |
|--------------------------|----------------|---|---------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will not Occur | X | |

Section VI - Health Hazard Data

| | | | |
|--------------------|-------------|--------|------------|
| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
| | No | Slight | No |

Health Hazards (*Acute and Chronic*)

| | | | |
|------------------|------|------------------|-----------------|
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| No | | | |

Signs and Symptoms of Exposure

Medical Conditions

General Aggravated by Exposure

Emergency and First Aid Procedures

Skin Contact - Wash immediately with water.

Eye Contact - Rinse immediately with water. Contact a physician immediately.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Small quantities can be rinsed with water. Collect, place in enclosed container and dispose accordingly.

Waste Disposal Method

All chemical disposal must be in accordance with current local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing
Store at room temperature, 25° C. No special handling.

Other Procedures

Section VIII - Control Measure

Respiratory Protection (*Specify Type*)

| | | | | |
|--------------------|-------------------------------|---------|--|--|
| Ventilation Yes | Local Exhaust | Special | | |
| | Mechanical (<i>General</i>) | Other | | |

Protective Gloves
Yes

Eye Protection
Safety glasses

Other Protective Clothing or Equipment

Work/Hygienic Practices