

Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 95045

Catalog Name: 0.02mol/L Ethylenediaminetetraacetic acid solution

Company Identification:

Junsei Chemical Co.,Ltd.

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Tokyo, 103-0023 Japan

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EMERGENCY TELEPHONE NUMBER: Production Headquarters

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E-mail: shiyaku@junsei.co.jp

CREATION DATE: June 7, 2002

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient 1

Chemical name: Ethylenediaminetetraacetic acid

Synonyms: EDTA

Molecular Formula: C10H16N2O8

Molecular Weight: 292.24

CAS NUMBER: 60-00-4

EC NUMBER (EINECS):200-449-4

JAPAN NUMBER (ENCS):2-1296, 2-1263

Content: ca.0.6%

Ingredient 2

Chemical name: Water

CAS NUMBER: 7732-18-5

EC NUMBER (EINECS): 231-791-2

Content: ca.99%

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation.

Ingestion:

Not available.

Inhalation:

Causes respiratory tract irritation.

Chronic:

No information found.

SECTION 4 FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

Treat symptomatically and supportively. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

SECTION 5 FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

 SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

 SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment**Eyes:**

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear a chemical apron.

Respirators:

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

 SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Appearance:	colorless
Odor:	odorless
pH:	Not available.
Vapor Pressure:	Negligible.
Viscosity:	Not available.
Boiling Point:	100 deg C.
Freezing/Melting Point:	0 deg C
Autoignition Temperature:	Not available.
Flash Point:	none
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.

Decomposition Temperature: Not available
Solubility: soluble
Specific Gravity/Density: ca. 1g/cm³

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions. Decarboxylates above 150C.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases, aluminum, copper, copper alloys, nickel.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, ammonia and/or derivatives.

Hazardous Polymerization: Has not been reported.

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 60-00-4: AH4025000

LD50/LC50:

CAS# 60-00-4: Oral, mouse: LD50 = 30 mg/kg.

Carcinogenicity:

Ethylenediaminetetraacetic acid, reagent ACS -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Fish toxicity: LC50 (96hr) bluegill sunfish, channel catfish 129-159 mg/l; LC50 (24hr) rainbow trout 340 mg/l Invertebrate toxicity: LC50 (24hr) Artemia salina 200 and 280 mg/l for saltwater and freshwater, respectively (Jarcovic, M. et al Arch. Fischereiwiss. 1969, 20, 178-181). Toxicity threshold, cell multiplication inhibition Pseudomonas putida 105 mg/l, Scenedesmus quadricauda 11 mg/l, Entosiphon sulcatum 36 mg/l (Bringmann, G. et al Water Res. 1980, 14, 231-241).

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

IATA
Not regulated as a hazardous material.
IMO
Not regulated as a hazardous material.
RID/ADR
Not regulated as a hazardous material.

SECTION 15 REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system
and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face
protection.

WGK (Water Danger/Protection)

CAS# 60-00-4: 2

United Kingdom Occupational Exposure Limits

Canada

CAS# 60-00-4 is listed on Canada's DSL List.

CAS# 60-00-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 60-00-4 is listed on the TSCA inventory.

SECTION 16 OTHER INFORMATION
