	LDIA		
MSDS Number: E0170 * * * * Effective			
EDTA DISODIUM SALT			
1. Product Identification Synonyms: (Ethylenedinitrilo) tetraace disodium dihydrogen ethylenediaminetet N,N'-1,2-ethanediylbis [N-(carboxymeth CAS No.: 139-33-3 (Anhydrous); 6381-92 Molecular Weight: 372.24 Chemical Formula: C10H1408N2Na2.2H20 Product Codes: J.T. Baker: 1474, 4040, 8993, 8994, 89 Mallinckrodt: 1395, 4931, 7565, 7566,	traacetate; disodionyl)- glycine], dis 2-6 (Dihydrate) 995 7727	um edetate; sodium salt, dihy	
2. Composition/Information on Ingredie	ents		
Ingredient	CAS No	Percent	Hazardous
EDTA Disodium Salt	139-33-3	90 - 100%	Yes
3. Hazards Identification Emergency Overview			

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

EDTA

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight
Flammability Rating: 1 - Slight
Reactivity Rating: 0 - None
Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Mild irritant. Symptoms may include coughing or sneezing.

Ingestion:

Substance has low toxicity by ingestion. Large amounts may cause gastric upset due to osmotic imbalance through the sequestering of metal ions.

Skin Contact:

Mild irritant. Symptoms may include reddening or inflammation on prolonged contact.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

No adverse health effects expected.

Aggravation of Pre-existing Conditions:

No adverse health effects expected.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers

```
in oxygen-deficient atmospheres.
Skin Protection:
Wear protective gloves and clean body-covering clothing.
Eye Protection:
Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities
in work area.
9. Physical and Chemical Properties
Appearance:
White crystals.
Odor:
Odorless.
Solubility:
10 g in 100 g of water.
Density:
No information found.
:Hd
No information found.
% Volatiles by volume @ 21C (70F):
Boiling Point:
Not applicable.
Melting Point:
252C (486F) Decomposes.
Vapor Density (Air=1):
No information found.
Vapor Pressure (mm Hg):
No information found.
Evaporation Rate (BuAc=1):
No information found.
10. Stability and Reactivity
Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Oxidizing agents.
Conditions to Avoid:
Incompatibles.
```

Anhydrous: Oral rat LD50: 2000 mg/k effector. Hydrate: Investigated as	-	ted as a muta	igen, rep	productive
\Cancer Lists\		Carcinogen-		
Ingredient	Known	Anticipate	ed IAR	
EDTA Disodium Salt (139-33-3)	No			None
12. Ecological Information Environmental Fate:				
No information found.				
Environmental Toxicity: 96 Hr LC50 bluegill: 159 mg/L (Stat	cic)			
13. Disposal Considerations Whatever cannot be saved for recove appropriate and approved waste dispof this product may change the wast regulations may differ from federal unused contents in accordance with	oosal facility e management disposal reg	/. Processing options. Sta gulations. Di	g, use or ate and l spose of	contamination ocal disposal container and
Whatever cannot be saved for recover appropriate and approved waste disposed this product may change the wast regulations may differ from federal	oosal facility e management disposal reg	/. Processing options. Sta gulations. Di	g, use or ate and l spose of	contamination ocal disposal container and
Whatever cannot be saved for recover appropriate and approved waste disposed this product may change the wast regulations may differ from federal unused contents in accordance with	posal facility e management disposal reg federal, stat	/. Processing options. Stagulations. Dite and local	g, use or ate and l spose of requirem	contamination ocal disposal container and ments.
Whatever cannot be saved for recover appropriate and approved waste disproof this product may change the wast regulations may differ from federal unused contents in accordance with	posal facility ce management disposal reg federal, stat	/. Processing options. Stagulations. Diste and local	g, use or ate and lespose of requirem	contamination cocal disposal container and nents.
Whatever cannot be saved for recover appropriate and approved waste disproof this product may change the wast regulations may differ from federal unused contents in accordance with	posal facility se management disposal reg federal, stat	/. Processing options. Stagulations. Diste and local	g, use or ate and laspose of requirem	contamination cocal disposal container and nents. Australia

EDTA

		Canada				
Ingredient		Korea	DSL	NDSL	Phil.	
EDTA Disodium Salt (139-33-3)		Yes	Yes	No	Yes	
\Federal, State & International Re	-SARA	302-	Part 1\ List	SARA	313	
ingleatent	ΛQ 	1PQ				arg.
EDTA Disodium Salt (139-33-3)	No	No	No		No	
\Federal, State & International Re	gulati	ons -	Part 2\ -RCRA-			
Ingredient	CERCL		261.33	8(d)	
EDTA Disodium Salt (139-33-3)	No		No	No		

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Label Precautions:

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least

EDTA

15 minutes. Get medical attention if irritation develops or persists. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Prepared by: Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)