

## **Safety Data Sheet**

# **EDTA, Free Acid, ACS**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EDTA, Free Acid, ACS

Synonyms/Generic Names: Edetic Acid; Versene; EDTA; Ethylenediamine Tetraacetic acid.

Product Number: CP-A1374D, CP-M1374D, 2000

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemicals

39103 Warren Road Westland, MI 48185

For More Information Call: 734-729-1805 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Irritant

Target Organs: None Known

Signal Words: Warning

Pictograms:



#### **GHS Classification:**

Eye irritation	Category 2A
Acute aquatic toxicity	Category 3
Acute toxicity, Oral	Category 5

#### **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

H303	May be harmful if swallowed.	
H319 Causes serious eye irritation.		
H402	Harmful to aquatic life.	

Revised on 8/6/2012 Page 1 of 6

**Precautionary Statements:** 

P264	Wash skin thoroughly after handling.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/face protection/eye protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses if present and easy to do so. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313 If eye irritation persists; Get medical advice/attention.		
P501	Dispose of contents/container to an approved waste disposal plant.	

#### **Potential Health Effects**

	* *************************************		
Eyes	/es Causes eye irritation.		
<b>Inhalation</b> May be harmful if inhaled. Causes respiratory tract irritation.			
Skin	May be harmful if absorbed through skin. Causes skin irritation.		
Ingestion	May be harmful if swallowed.		

**NFPA Ratings** 

Health	1	
Flammability	0	
Reactivity	0	
Specific hazard	Not Available	

**HMIS Ratings** 

Health	1
Fire	0
Reactivity	0
Personal	E

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Ethylenediamine Tetraacetic Acid	100	60-00-4	200-449-4	$(HO_2CCH_2)_2NCH_2CH_2N(CH_2CO_2H)_2$	292.24 g/mol

## 4. FIRST-AID MEASURES

Eyes	Flush eyes with water. Get medical attention if necessary.	
<b>Inhalation</b> Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention if necessary.	
Skin	Wash off with soap and plenty of water. Get medical attention if necessary.	
<b>Ingestion</b> Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
	conscious, wash out mouth with water. Get medical attention if necessary.	

## **5. FIREFIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Use flooding quantities of water to cool containers.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	Emits toxic fumes (carbon oxides, nitrogen oxides) under fire	
the chemical	conditions. (See also Stability and Reactivity section).	

Revised on 8/6/2012 Page 2 of 6

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	See section 8 for recommendations on the use of personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas.
emergency procedures	
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to a federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Evacuate and ventilate the area. Sweep up and then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations. Containers, even when empty, will retain residue and vapors.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Isolate from oxidizing materials. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

#### **Personal Protection**

Eyes	Wear chemical safety glasses.	
Inhalation	Use an approved respirator if exposure levels are excessive. Provide adequate exhau	
Skin	Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure.	
Other	Not Available	

#### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White crystals
Odor	No odor
Odor threshold	Not Applicable
pH	2.5 at 10 g/l at 23°C (73°F)
Melting point/freezing point	250 °C (482 °F)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available

Revised on 8/6/2012 Page 3 of 6

Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

### **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Strong oxidizers.
<b>Hazardous Decomposition Products</b>	Carbon oxides, nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Skin	Not Available
Eyes	Eyes – rabbit – Eye irritation
Respiratory	Not Available
Ingestion	LD50 Oral - rat - 2,580 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	ŭ i
NTP	No components of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Eyes	Causes eye irritation.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. Causes skin irritation.	
Ingestion	May be harmful if swallowed.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Aquatic Vertebrate	mortality NOEC - Lepomis macrochirus - 24 mg/l - 96.0 hours LC50 - Lepomis macrochirus (Bluegill) – 34 - 62 mg/l - 96.0 hours
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Revised on 8/6/2012 Page 4 of 6

Persistence and Degradability	Not Available
Bioaccumulative Potential	Lepomis macrochirus - 28 d; Bioconcentration factor (BCF): 1.8
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

## 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

#### 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Ethylenediamine Tetraacetic Acid
SARA 312	Ethylenediamine Tetraacetic Acid
SARA 313	Not Listed
WHMIS Canada	Not Listed

Revised on 8/6/2012 Page 5 of 6

#### **16. OTHER INFORMATION**

Revision	Date
Revision 1	08-11-2011

Disclaimer: ChemPure Brand Chemicals ("ChemPure") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because ChemPure has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. ChemPure MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

Revised on 8/6/2012 Page 6 of 6