Revision number: 2.1

Revision date: 10/24/2019 Page 1 of 4 Revision date: 10/24/2019

# SAFETY DATA SHEET

#### **1. IDENTIFICATION**

Product name: Product code: Company: Address:

**Telephone:** 

Fax: e-mail: Ethylenediaminetetraacetic Acid E0084 MIT-IVY INDUSTRY CO., LTD Chemical Industry Park, 69 Guozhuang Road, Yunlong District, Xuzhou City, Jiangsu Province, China 221100 Sales Department +86-15252035038 ++86-0516-837691395 INFO@MIT-IVY.COM +86-13805212761

## 2. HAZARDS IDENTIFICATION

**Responsible Department:** 

Emergency telephone:

**Revision number:** 

Classification of the substance or mixture PHYSICAL HAZARDS HEALTH HAZARDS Acute toxicity (Oral) Serious eye damage/eye irritation Reproductive toxicity Specific target organ toxicity - Repeated exposure [Category 1] ENVIRONMENTAL HAZARDS Label elements Pictograms or hazard symbols

2.1

Not classified

Category 5 Category 2A Category 2 Kidney

Not classified

Signal word

Hazard statements

Danger May be harmful if swallowed Causes serious eye irritation Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure : Kidney

Precautionary statements	
[Prevention]	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Do not breathe dust, fume, mist, vapors or spray.
	Do not eat, drink or smoke when using this product.
	Wash hands and face thoroughly after handling.
	Wear protective gloves, protective clothing, face protection.
[Response]	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
	IF exposed or concerned: Get medical advice or attention.
[Storage]	Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Ethylenediaminetetraacetic Acid
Percent:	>98.0%(T)
CAS RN:	60-00-4
Synonyms:	(Ethylenedinitrilo)tetraacetic Acid, EDTA
Chemical Formula:	C10 H16 N2O8
4. FIRST AID MEASURES	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty

Eye contact:

Ingestion:

of soap and water. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Get medical advice/attention.

Get medical advice/attention.Rinse mouth.

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 5. FIRE-FIGHTING MEASURES

 Suitable extinguishing media:
 Dry chemical, foam, water spray, carbon dioxide.

 Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to the chemical:
 Drecautions for firefighters:

 Precautions for firefighters:
 Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment** When extinguishing fire, be sure to wear personal protective equipment for firefighters:

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage
emergency procedures:	area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

 Technical measures:
 Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.

 Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

 Advice on safe handling:

 Advide on safe handling:

# Conditions for safe storage, including any

#### incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
-	Store locked up.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath. **Personal protective equipment** 

Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Almost white
Odour:	No data available
pH:	2.5 (10g/L 23°C)
Melting point/freezing point:	242°C (dec.)
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive	
limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	2.0 x 10 <sup>-13</sup> kPa/25°C
Relative density:	No data available
Solubility(ies):	
[Water]	Insoluble (0.05g/100mL)
[Other solvents]	
Soluble:	Sodium hydroxide solution
Insoluble:	Many organic solvents
Log Pow:	-3.86
Decomposition temperature:	150°C (Starts to decarboxylate)

# **10. STABILITY AND REACTIVITY**

Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Incompatible materials:	Oxidizing agents
Hazardous decomposition	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
products:	

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity:	orl-mus LD50:30 mg/kg ipr-rat LD50:397 mg/kg ivn-mus LD50:28500 ug/kg
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	cyt-mus-ipr 50 mmol/L
	dnd-mus-lym 40500 umol/L
	dni-rat-oth 600 umol/L
	dni-rbt-kdy 250 umol/L
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo:7632 mg/kg (7-14D preg)
RTECS Number:	AH4025000

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity:	
Fish:	48h LC50:163 mg/L (Oryzias latipes)
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	0 % (by BOD) , 0 % (by TOC) , 0 % (by UV-VIS)
Bioaccumulative	2.7 - 12 (conc. 2 mg/L) , 27 - 123 (conc. 0.2 mg/L)
potential(BCF): Mobility in soil	
Log Pow:	-3.86
Soil adsorption (Koc):	313
Henry's Law (PaM ³/mol):	5.9 x 10 <sup>-11</sup>

#### **13. DISPOSAL CONSIDERATIONS**

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

#### **14. TRANSPORT INFORMATION**

Hazards Class:	Does not correspond to the classification standard of the United Nations
UN-No:	Not listed

#### **15. REGULATORY INFORMATION**

**Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011):** Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

# 16. OTHER INFORMATION The reference company name of written contents Company: MIT-IVY INDUSTRY CO., LTD. Address: Chemical Industry Park, 69 Guozhuang Road, Yunlong District, Xuzhou City, Jiangsu Province, China 221100 Department: Technical Information Department Emergency telephone: +86-13805212761

**Fax:** +86-0516-83769139

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should betaken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.