



Test Report

No. GSYyyyymmdd

Date: yyyy-mm-dd

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - **Trade name:** EDTA 4Na
 - **Registration number:** Data not available
- **1.2 Relevant identified uses of the substance or mixture and uses advised against on**
 - **Application of the substance/ mixture:** Material for industrial manufacture.
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Shanghai Qinai Enviro-Equipments Manufacture Co., Ltd
NO.381 TingQuan Rd TingLin Town Jinshan District Shanghai P.R.CHINA
Tel: +086 21-57232175
 - **Only Representative/other EU contact point:** Information not available
 - **Further information obtainable from:** Shanghai Qinai Enviro-Equipments Manufacture Co., Ltd
- **1.4 Emergency telephone number**
General in EU
112 (Available 24 hours a day)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
Classification according to regulation (EC) 1272/2008:



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage



GHS07 Exclamation mark

Acute Tox. 4 H302 Harmful if swallowed

- **Classification system:**

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

- **2.2 Label elements**
 - **Labeling according to Regulation (EC) No 1272/2008:** The product is labeled according to CLP regulation.
 - **Hazard pictograms:**



GHS05 GHS07

- **Signal word:** Danger

- **Hazard statements:**

H302 Harmful if swallowed

H318 Causes serious eye damage

- **Precautionary statement:**

P264 Wash hands and face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container in accordance with local regulation.

• 2.3 Other hazards

• Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

• 3.1 Chemical characterization: Mixture

• Description:

Mixture of the substances listed below with nonhazardous additions; For the wording of the listed risk phrases refer to section 16.

• Component:		
CAS No.: 64-02-8 EC No.: 200-573-9 Index No.: 607-428-00-2	Tetrasodium ethylene diamine tetraacetate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥99%
CAS No.: 7439-92-1 EC No.: 231-100-4 Index No.: 082-014-00-7	Lead ⚠ Repr. 1A, H360FD; Lact., H362	≤0.002%
CAS No.: 7439-89-6 EC No.: 231-096-4	Iron	≤0.001%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

General advice: Remove contaminated clothing. If feel unwell, Get medical advice/attention.

After inhalation: Keep patient calm, remove to fresh air, seek medical attention.

After skin contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

After swallowing: Rinse mouth, then drink 200-300 ml of water or milk. Call a POISON CENTER/doctor if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed: Causes serious eye damage.

• 4.3 Indication of any immediate medical attention and special treatment needed: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-fighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents: CO₂, chemical powder, water spray or alcohol resistant foam.

• 5.2 Special hazards arising from the substance or mixture: May produce irritant /harmful dust.

• 5.3 Advice for firefighters

Protective equipment: Wear a self-contained breathing apparatus.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage if safe to do it; Ensure adequate ventilation; Avoid breathing dust; Wear eye protection/face protection; Prevent contact with skin and eyes.

• 6.2 Environmental precautions:

Do not allow the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course



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or sewage system.

• **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically; Ensure good ventilation; Dispose contaminated material as waste according to item 13.

• **6.4 Reference to other sections:**

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal in formation.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

Ensure adequate ventilation; Use respiratory protective device against the effects of dust; Avoid breathing dust; Wear eye protection/face protection; Prevent contact with skin and eyes.

• **Information about fire and explosion protection:** Normal measures for preventive fire protection.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:** Store in a dry and well-ventilation place.

• **Information about storage in one common storage facility:** Store in the original container.

• **Further information about storage conditions:** Store locked up.

• **7.3 Specific end use(s):** Material for industrial manufacture.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
64-02-8 Tetrasodium ethylene diamine tetraacetate			
Local Effects	Long-term, inhalation	1.5 mg/m ³	600 µg/m ³
	Acute /short term, inhalation	3 mg/m ³	1.2 mg/m ³
Systemic effects	Long-term, oral exposure	-	25 mg/kg bw/day

• **PNECs:**

PNEC type	Value
64-02-8 Tetrasodium ethylene diamine tetraacetate	
Freshwater	2.2 mg/L
Intermittent releases (freshwater)	1.2 mg/L
Marine water	220 µg/L
Sewage treatment plant (STP)	43 mg/L

• **Additional information:** The lists valid during the marking were used as basis.

• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; Do not eat, drink or smoke when using this product; See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Respiration protection:** Ensure good ventilation; suitable respiratory protective device recommended.

• **Protection of hands:**



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Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.30mm; breakthrough times up to 480 minutes).

• Eye protection:



Safety glasses

Protective goggles with side-shields.

• Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• Appearance:

Form	Powder
Color	White
Odor	Odorless
Odor threshold	Not determined
pH-value	10.5-11 (saturated aqueous solution) at 20°C

• Change in condition

Melting point/melting range	248°C
Boiling point and boiling range	Not determined
Freezing point	Not determined
Flash point	Not applicable
Flammability(solid, gas)	Not flammable solid
Decomposition temperature	Not determined
Self-ignition	450 °C
Danger of explosion	Product does not present explosive hazard.

• Explosion limits

Lower:	Not explosive
Upper:	Not explosive

• Oxidizing properties

No oxidation

Vapor pressure 0 Pa at 25 °C

Density 1.67 g/cm³ at 20 °C

Relative density Not determined

Vapor density Not determined

Evaporation rate Not determined

• Solubility in/Miscibility with

Water 500 g/L at 20 °C

Partition coefficient (n-octanol/water) -13.17 at 25 °C

• Viscosity

Dynamic Not applicable

Kinematic Not applicable

• 9.2 Other information

Data not available



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SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No decomposition if used according to specification.
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions:** No further relevant information available.
- **10.4 Conditions to avoid:** Avoid humidity.
- **10.5 Incompatible materials:** Strong acid.
- **10.6 Hazardous decomposition products:** No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Harmful if swallowed.
- **LD/LC50 values relevant for classification:** No animal test has been done for this product or the components.

64-02-8	Tetrasodium ethylene diamine tetraacetate	
Rat	LD50-oral	1780-2000mg/kg
7439-89-6	Iron	
Rat	LD50-oral	30000mg/kg
Remark: The above data are from literature.		

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eyes damage/irritation:** Causes serious eye damage.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Not hazardous to the aquatic environment.

64-02-8	Tetrasodium ethylene diamine tetraacetate	
Short-term toxicity to fish	LC50 (4 days) 41 - 1 592 mg/L	
Long-term toxicity to fish	NOEC (35 days) 25.7 mg/L	
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 140 mg/L	
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 25 mg/L	
	LOEC (21 days) 50 mg/L	
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 2.77 - 1000 mg/L	
	NOEC (72 h) 390 - 100000 µg/L	
	LOEC (72 h) 780 - 1000000 µg/L	

- **12.2 Persistence and degradability:** Not readily degradable.

64-02-8	Tetrasodium ethylene diamine tetraacetate	Under test conditions no biodegradation observed
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- **12.3 Bio-accumulative potential:** Not bio-accumulation.

64-02-8	Tetrasodium ethylene diamine tetraacetate	Log Pow = -13.17 at 25 °C (low)
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- **12.4 Mobility in soil:** Soluble in water.
- **12.5 Results of PBT and vPvB assessment**
PBT: Not applicable
vPvB: Not applicable
- **12.6 Other adverse effects:** No further relevant information available.
- **12.7 Additional ecological information**
- **General notes:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
Do not allow the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

- **13.1 Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage. Must be dumped or incinerated in accordance with local regulations.
- **13.2 Un-cleaned packaging**
- **Recommendation:** Dispose of contents/container in according to the local regulation.

SECTION 14: Transport information

- | | |
|--|--|
| • 14.1 UN-Number
ADR, RID, ADN IMDG, IATA | Not classified as a dangerous good under transport regulations |
| • 14.2 UN proper shipping name
ADR, RID, ADN IMDG, IATA | Void |
| • 14.3 Transport hazard class (es)
ADR, RID, ADN IMDG, IATA
Class
Label | Void
Void |
| • 14.4 Packing group
ADR, RID, ADN IMDG, IATA | Void |
| • 14.5 Marine pollution | No |
| • 14.6 Special precautions for user | Void |
| • 14.7 UN "Model Regulation" | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):**

7439-92-1	Lead	2
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- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **National regulations.**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

7439-92-1	Lead	Toxic for reproduction (Article 57c)
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- **REACH Regulation Annex XVII Restriction:**

7439-92-1	Lead	Entry no. 63
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- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.



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SECTION 16: Other information

Relevant phrases:

H302 Harmful if swallowed

H318 Causes serious eye damage

H360FD May damage fertility. May damage the unborn child

H362 May cause harm to breast-fed children

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

NOEC: No observed effect concentration

LOEC: Lowest observed effect concentration

EC50: Concentration of maximal effect, 50 percent

Acute Tox. 4: Acute toxicity, hazard category 4

Eye Dam. 1: Eye damage/irritation, hazard category 1

Repr. 1A: Reproductive toxicity, hazard category 1A

Lact.: Reproductive toxicity, effects on or via lactation

End of safety data sheet



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