

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Ethylenediaminetetraacetic acid

Number : 000000020539

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance : Eye irritation, Category 2A
or mixture

GHS Label elements, including precautionary statements

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

Symbol(s)

:



Signal word

: Warning

Hazard statements

: Causes serious eye irritation.

Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/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/ attention.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C₁₀H₁₆N₂O₈

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Ethylenediamine tetraacetic acid	60-00-4	100.00 %

SECTION 4. FIRST AID MEASURES

General advice

: First aider needs to protect himself. Move out of dangerous

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

area. Take off all contaminated clothing immediately.

- Inhalation : If inhaled, remove to fresh air. Call a physician if irritation develops or persists.
- Skin contact : After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
- Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Ammonia
Nitrogen oxides (NO_x)
carbon oxides (CO, CO₂).
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Avoid dust formation.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Do not contaminate water.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Exhaust ventilation at the object is necessary.
Wear personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

- Conditions for safe storage, including any incompatibilities : Store in original container.
Keep tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Ethylenediaminetetraacetic acid

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Revision Date 02/23/2022

Print Date 05/29/2023

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethylenediamine tetraacetic acid	60-00-4	TWA : Time weighted average	10 mg/m3	12/12/1997	Honeywell:Limit established by Honeywell International Inc.
Further information	:	Form of exposure : Total dust.			

Ethylenediamine tetraacetic acid	60-00-4	TWA : Time weighted average	5 mg/m3	12/12/1997	Honeywell:Limit established by Honeywell International Inc.
Further information	:	Form of exposure : Respirable dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: Note: No data available
Melting point (decomposition)	: 240 °C
Boiling point/boiling range	: Note: No data available
Flash point	: Note: Not applicable
Flammability	: This product is not easily inflammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: 0.86 g/cm ³ at 20 °C
Water solubility	: 0.4 g/l at 20 °C Note: slightly soluble
Partition coefficient:	: log Pow: -3.34

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

n-octanol/water

Ignition temperature : Note: No data available

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 292.24 g/mol

Bulk density : ca. 680 kg/m³**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents
Strong basesHazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Ammonia
Nitrogen oxides (NO_x)
carbon oxides (CO, CO₂).**SECTION 11. TOXICOLOGICAL INFORMATION**

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

Acute oral toxicity	: LD50: 4,500 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Eye irritation	: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405
Sensitisation	: Note: No data available
Genotoxicity in vitro	: Note: No data available
Teratogenicity	: Species: RatApplication Route: Oral Exposure time: 7 d Teratogenicity NOAEL: ≥ 967 mg/kg bw/d Developmental Toxicity NOAEL: ≥ 967 mg/kg bw/d Embryo-fetal toxicity NOAEL: ≥ 967 mg/kg bw/d Note: highest exposure tested

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: static test LC50: 41 mg/l Exposure time: 96 h
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Version 1.1

Revision Date 02/23/2022

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Species: *Lepomis macrochirus* (Bluegill sunfish)

: static test

LC50: 59.8 mg/l

Exposure time: 96 h

Species: *Pimephales promelas* (fathead minnow)Toxicity to daphnia and other
aquatic invertebrates

: EC50: 1,033 mg/l

Exposure time: 24 h

Species: *Daphnia magna* (Water flea)

Method: DIN 38412

Toxicity to algae

: Growth inhibition

1.01 mg/l

Exposure time: 72 h

Species: *scenedesmus subspicatus*

Toxicity to bacteria

: Note: No data available

Elimination information (persistence and degradability)

Biodegradability

: aerobic

Value: < 20 %

Method: OECD 302 B

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

: Observe all Federal, State, and Local Environmental
regulations.**SECTION 14. TRANSPORT INFORMATION****DOT**

Not dangerous goods

TDG

Not dangerous goods

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Revision Date 02/23/2022

Print Date 05/29/2023

IATA Not dangerous goods**IMDG** Not dangerous goods**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AICC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA Hazardous Substances (40 : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the

Ethylenediaminetetraacetic acid**03610-500G**

Version 1.1

Revision Date 02/23/2022

Print Date 05/29/2023

CFR 302)	Reportable Quantity (RQ):	
	Reportable quantity: 5000 lbs	
	: Ethylenediamine tetraacetic acid	60-00-4
SARA 302 Components	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
SARA 311/312 Hazards	: Acute Health Hazard	
CERCLA Reportable Quantity	: 5000 lbs	
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
Massachusetts RTK	: Ethylenediamine tetraacetic acid	60-00-4
New Jersey RTK	: Ethylenediamine tetraacetic acid	60-00-4
Pennsylvania RTK	: Ethylenediamine tetraacetic acid	60-00-4

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

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Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 10/03/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group