

# SAFETY DATA SHEET

**Honeywell**  
**Fluka™**

Ethylenediaminetetraacetic acid

**03610-500G**

Version 2.2

Issuing date 12/09/2016

Revision Date 12/12/2022

Print Date 05/29/2023

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product information

Trade name : Ethylenediaminetetraacetic acid

Number : 000000020539

Recommended use of the chemical and restrictions on use : Laboratory chemicals

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

For further information, please contact: : 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**  
In Japan: +(81)-345209637

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

### GHS Label elements, including precautionary statements

Symbol(s) :



Signal word : Warning

Hazard statements : Causes serious eye irritation.

Precautionary statements : **Prevention:**

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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.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub>

Chemical nature : Substance

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

**4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself.  
Move out of dangerous 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 : Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Ammonia  
Nitrogen oxides (NO<sub>x</sub>)  
carbon oxides (CO, CO<sub>2</sub>).
- 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.

## 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.

## 7. HANDLING AND STORAGE

### Handling

- Precautions for safe handling : Exhaust ventilation at the object is necessary.  
Wear personal protective equipment.  
Avoid dust formation.

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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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

Use with local exhaust ventilation.

### Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Latex gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: odourless
Odour 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
Vapour pressure	: Note: No data available
Vapour density	: Note: No data available
Density	: 0.86 g/cm <sup>3</sup> at 20 °C
Water solubility	: 0.4 g/l at 20 °C Note: slightly soluble
Partition coefficient: n-octanol/water	: log Pow: -3.34
Ignition temperature	: Note: No data available

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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/m<sup>3</sup>

### 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : None known.

Incompatible materials to avoid : Strong oxidizing agents  
Strong bases

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Ammonia  
Nitrogen oxides (NO<sub>x</sub>)  
carbon oxides (CO, CO<sub>2</sub>).

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact, Ingestion

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 corrosion/irritation : Species: Rabbit

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Result: No skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405

Respiratory sensitisation : Note: No data available

Skin sensitisation : Note: No data available

Germ cell mutagenicity : Note: No data available

Carcinogenicity : Note: No data available

Reproductive toxicity : Species: RatApplication Route: Oral  
Exposure time: 7 d  
Teratogenicity NOAEL:  $\geq 967$  mg/kg bw/d  
Developmental Toxicity NOAEL:  $\geq 967$  mg/kg bw/d  
Embryo-fetal toxicity NOAEL:  $\geq 967$  mg/kg bw/d  
Note: highest exposure tested

Specific target organ toxicity - single exposure : Note :No data available

Specific target organ toxicity - repeated exposure : Note :No data available

Aspiration toxicity : No data available

## 12. ECOLOGICAL INFORMATION

### Aquatic and ecotoxicity

Toxicity to fish : static test  
LC50: 41 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

: static test

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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

### Persistence and degradability

Biodegradability : aerobic  
Value: < 20 %  
Method: OECD 302 B

### Bioaccumulative potential

Bioaccumulation : Note: No data available

### Mobility in soil

Mobility : Note: No data available

## 13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.



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## 14. TRANSPORT INFORMATION

### ADR

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

### RID

Not dangerous goods

## 15. REGULATORY INFORMATION

### National regulatory information

Chemical Substance : Listed  
Control Law Type II Monitoring Chemical Substance.  
DES (JP) Reference: (2)-1263

Chemical Substance Control : 388  
Law Listed  
Ethylenediamine tetraacetic acid 60-00-4

Fire Service Law : Not relevant

Japan. ISHL Hazardous : Listed  
Substances Subject to Ethylenediamine tetraacetic acid 60-00-4  
Labeling Requirements  
(ISHL Enforcement Order,  
Article 18, Art. 30 & 31), as  
amended

Japan. SDS and Risk : Listed  
Assessment Requirements Ethylenediamine tetraacetic acid 60-00-4  
(ISHL Art. 57-2 and 57-3,  
Enforcement Order Art. 18-2,  
Enforcement Rule Art. 34-2  
and 34-2-2), as amended

Poisonous and Deleterious : Not relevant  
Substances Control Law

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Act on Confirmation, etc. of  
Release Amounts of Specific  
Chemical Substances in the  
Environment and Promotion  
of Improvements to the  
Management Thereof : Class 1  
595  
Listed

## Other international regulations

### Notification status

US. Toxic Substances  
Control Act : On TSCA Inventory

Australia. Inventory of  
Industrial Chemicals (AIIC),  
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

Taiwan Chemical Substance  
Inventory (TCSI) : On the inventory, or in compliance with the inventory

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## 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.

### 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: 10/02/2017

Revision Date: 12/12/2022

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Issuing date 12/09/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group