1: Identification o	f substance / mixture			
1. Product Identi	fier			Substance
Product Name	Ethylenediaminetetraa	cetic acid		
Product Code	E58100			
CAS Number	60-00-4			
Other Names	EDTA			
IUPAC				
MFCD Number				
EC/EINECS	200-449-4			
REACH Number			Index-No	
2. Relevant iden	tified uses of the substand	ce or mixture and	uses advised against	
Research and De	velopment			
3. Details of the	supplier of the safety data	a sheet		
Melford Laborator	ies Ltd			
Bildeston Road,C	helsworth			
lpswich		-		
Suffolk IP77LE		Telephone: Fax:	01449 741178 01449 741217	
UK		Email:	support@melford.co.uk	
-	lephone number			
+44(0)1449 74117				
2. Hazards Identi	fication			
1. Classification	of the substance or mixtu	ire		
H319 E	Eye Irrit. 2			
2. Label element	s			
Signal Word Warning				
	Ú Ó			
Hazard Stateme				
	Causes serious eye irritation.			
Precautionary P				
	IF IN EYES: Rinse cautious easy to do. Continue rinsing		veral minutes. Remove cor	tact lenses, if present and
].		
3. Other Hazards	tionary phrases are located thr	oughout the safety d	ata sheet	
-	nformation on Ingredients	oughout the buildty at		
1. Substances	mormation on ingredients			
Product Name		Hazards		Concentration
Ethylenediaminete	traacetic acid			
	CAS Number: 60-00-4	H310 Evo Irrit 2		<=100%
	EC/EINECS: 200-449-4			<=10078
4. First Aid Meas	ures			
1. Description of	first aid measures			
Skin Contact	Wash immediately with plen	ty of soap and water.		
	Consult a doctor.			
Eye Contact				

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0 0 0		Modified: 2022-01-04
	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Re present and easy to do. Continue rinsing. Bathe the eye with running water for 15 minutes. Consult a doctor.	move contact lenses, if
Ingestion	Wash out mouth with water. Consult a doctor.	
Inhalation	Supply fresh air; consult a doctor in case of complaints. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Treat sympomatically.	
2. Most import	ant symptoms and effects	

No data available

3. Indication of any immediate medical attention

No data available

5. Firefighting measures

1. Extinguishing Media

Water spray. Carbon dioxide. Alcohol or polymer foam Dry chemical powder.
Dry chemical powder.

Unsuitable

2. Special Hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

n/a

3. Advice for Fire Fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details. Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Pick up and arrange disposal without creating dust. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7.Handling and Storage

1. Personal Precautions

Safe Handling	Provide appropriate exhaust ventilation at places where dust is formed. Avoid direct contact with the substance.
Protection against explosions and fires	No special requirements Normal measures for preventive fire protection.

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2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks	Keep container tightly closed. Store in cool, well ventilated area.
Storage Controls	No special requirements
Maintaining Integrity	No special requirements
Other advice	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls	
General protective and hygiene measures	The standard precautionary measures should be adhered to when handling Wash hands during breaks and at the end of handling the material
Engineering measures	Provide appropriate exhaust ventilation at places where dust is formed.
Eye / Face Protection	Safety Glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Skin protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
Other personal protection advice	no data available

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Solid
Odour	odourless
Odour threshold	No Data Available
PH	2.5 at 10 g/l at 23 °C
Melting point / Freezing point	250 °C - dec.
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available

According to Regulation (EC) No. 1272/2008 Language : English

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Vapour density	No Data Available	
Relative density	1.46 g/cm3 at 20 °C	
Solubility(ies):	0.4 g/l at 20 °C (water)	
Partition coefficient: n-octanol/water	log Pow: 8.85 - 10.44 at 20 °C	
Auto-ignition temperature	> 400 °C at 1,013 hPa	
Decomposition temperature	No Data Available	
Viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidising properties	No Data Available	

2. Other Information

Dissociation constant 8.85 - 10.44 at 20 °C

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions..

3. Possibility of Hazardous Reactions

No data available

4.Conditions to Avoid

No data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes: Carbon oxides, Nitrogen oxides (NOx)

11. Toxicology information

1. Information

1	. Information	
	Acute Toxicity	LD50 Oral - Rat - male and female - 4,500 mg/kg
	Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation
	Serious eye Damage/irritation	Eyes - Rabbit Result: Eye irritation
	Respiratory or skin sensitisation	Maximisation Test (GPMT) - Rabbit Result: Does not cause skin sensitisation.
	Germ Cell mutagenicity	not known
	Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity	not known
	STOT-single exposure	not known
	STOT-repeated exposure	not known
	Aspiration hazard	not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

Toxicity to fish:

static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 41 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 625 mg/l - 48 h

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

Bioaccumulation Lepomis macrochirus - 28 d - 80 $\mu g/l$ Bioconcentration factor (BCF): 1.8

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

6. Other adverse effects

May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations: product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

Safety Data Sheet

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.