

53639 Königswinter

Date printed 16.08.2024, Revision 16.08.2024

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

1.1 Product identifier

DumaEDTA, for calibration standard, 10g

Article number: 14-0032

Registration number 01-2119486399-18-XXXX

IUPAC Ethylenediaminetetraacetic acid

 EU-INDEX
 607-429-00-8

 EINECS/ELINCS
 200-449-4

 CAS
 60-00-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Analytical chemistry

1.2.2 Uses advised against

None known.

.3 Details of the supplier of the safety data sheet

Company C. Gerhardt GmbH & Co. KG

Cäsariusstraße 97

53639 Königswinter / GERMANY Phone +49 (0)2223 2999 - 0 Fax +49 (0)2223 2999 - 99 Homepage www.gerhardt.de E-mail info@gerhardt.de

Address enquiries to

Technical information info@gerhardt.de

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company +49 (0) 2223 2999-0 Mo-Fr 8:00 - 16:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms



Signal word WARNING

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P280 Wear protective gloves / eye protection.

P337+P313 If eye irritation persists: Get medical advice / attention.



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2.3 Other hazards

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels

of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

properties according to REACH Article 57(f) or Commission Delegated regulation (E 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

The product is a substance.

Range [%]	Substance
100	Ethylenediaminetetraacetic acid
	CAS: 60-00-4, EINECS/ELINCS: 200-449-4, EU-INDEX: 607-429-00-8, Reg-No.: 01-2119486399-18-XXXX
	GHS/CLP: Eye Irrit. 2: H319

Comment on component parts

For full text of H-statements: see SECTION 16.

3.2 Mixtures

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Eye contact 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. Rinse out mouth and give plenty of water to drink.

De not induce verniting

Do not induce vomiting. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Ingestion

Full water jet



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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Ammonia (NH3).

Nitrogen oxides (NOx). Carbon dioxide (CO2) Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to dust.

Wear suitable protective equipment. For personal protection see SECTION 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Provide suitable vacuuming at the processing area.

Avoid the formation and deposition of dust.

Avoid contact with eyes and skin. Use personal protective equipment.

The product is combustible.

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

Use barrier skin cream.

Wash hands before breaks and after work.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Ethylenediaminetetraacetic acid, CAS: 60-00-4

Industrial, inhalative, Long-term - systemic effects, 1,5 mg/m³

Industrial, inhalative, Acute - local effects, 3 mg/m³

Industrial, inhalative, Long-term - local effects, 1,5 mg/m³

general population, oral, Long-term - systemic effects, 25 mg/kg bw/day

general population, inhalative, Long-term - local effects, 0,6 mg/m³

PNEC

Ethylenediaminetetraacetic acid, CAS: 60-00-4

freshwater, 2,17 mg/L

seawater, 0,217 mg/L

sewage treatment plants (STP), 50 mg/L

soil, 1,11 mg/kg

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Pay attention to dust limit value (ACGIH-2011: 10 mg/m³ particle inhalable; 1,25 mg/m³

particle respirable).

general population, inhalative, Acute - local effects, 1,2 mg/m³

Eye protection safety glasses (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

0,6 mm; natural latex, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection Respiratory protection in the case of dust formation.

Use Safety mask. (DIN EN 149)

Thermal hazards nor

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

Safety Data Sheet (UK REACH) (UK) DumaEDTA, for calibration standard, 10g Article number 14-0032



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical statesolidFormpowderColorcolourlessOdorodourlessOdour thresholdnot applicable

pH-valuepH-value [1%]No information available.

Boiling point or initial boiling point

and boiling range [°C]

not applicable

Flash point [°C] not applicable
Flammability Combustible
Lower explosion limit not applicable
Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] not applicable

Density [g/cm³] 0,86 (20 °C)

Relative density No information available.

Bulk density [kg/m³] ca. 680

Solubility in water 0,4 g/L (20 °C)

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

-3,34

Kinematic viscosity not applicable
Relative vapour density not applicable

Melting point [°C] 240

Auto-ignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

Particle characteristics No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

Safety Data Sheet (UK REACH) (UK)
DumaEDTA, for calibration standard, 10g
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10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

LD10, oral, Rat, 4500 mg/kg, OECD 401

Acute dermal toxicity

No information available.

Acute inhalational toxicity

No information available.

Serious eye damage/irritation Irritant

Based on the available information, the classification criteria are fulfilled.

Harmonised Classification.

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

Rabbit (eye), OECD 405, irritant

Skin corrosion/irritation

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

dermal, Guinea pig, OECD 406, negativ

Specific target organ toxicity —

single exposure

No information available.

Specific target organ toxicity —

repeated exposure

No information available.

Mutagenicity

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

oral, mouse, in vivo, OECD 474, negativ

Reproduction toxicity

No information available.

- Fertility

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

Study, negativ

- Development

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

Study, negativ

CarcinogenicityNo information available.Aspiration hazardNo information available.



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General remarks

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none

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

properties according to REACH Article 57(t) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

LC50, (96h), Fish, 41 mg/L

LC50, (96h), Pimephales promelas, 59,8 mg/L

EC50, (24h), Daphnia magna, 1033 mg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

(28d), 20%, OECD 302 B, The product is not readily biodegradable.

12.3 Bioaccumulative potential

Substance

Ethylenediaminetetraacetic acid, CAS: 60-00-4

log Pow, 0,13

12.4 Mobility in soil

The product is poorly water-soluble.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070799

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with

IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

with not applicable

IMDG

Air transport in accordance with IATA not applicable



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14.4 Packing group

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Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with r

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances \geq 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 75

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.



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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score LC50 = Lethal concentration, 50%

LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Eye Irrit. 2: H319 Causes serious eye irritation. (On basis of test data)

Modified position 2.3, 5.2, 11.1, 11.2, 12.3, 12.4, 12.6, 15.1

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