

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 1.2

Pharmachemical Co. Issue date: 10/29/2004 Revision date: 07/14/2020 Supersedes: 03/23/2017

SECTION 1: Identification

1.1. Identification

Product form : Substance

Substance name : EDTA, Disodium, Dihydrate

CAS-No. : 6381-92-6 Product code : 1.1600

Formula : C10H14N2O8Na2·2H2O

Synonyms : Ethylenediaminetetraacetic acid, disodium salt, dihydrate

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. Supplier

NEUTRON PHARMACHEMICAL CO

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 125

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (oral) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 3
H302
Harmful if swallowed
H315
Causes skin irritation
H319
Causes serious eye irritation
H335
May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H302 - Harmful if swallowed H315 - Causes skin irritation

> H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P261 - Avoid breathing dust.

P264 - Wash exposed skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective gloves.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P311 - Call a POISON CENTER or doctor/physician.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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P362 - Take off contaminated clothing and wash before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to comply with local, state and federal regulations.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Other hazards which do not result in classification

Other hazards not contributing to the classification

: None.

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
EDTA, Disodium, Dihydrate (Main constituent)	(CAS-No.) 6381-92-6	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

Mixtures

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation First-aid measures after skin contact occurs: Get medical advice/attention.

> 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.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

First-aid measures after eye contact

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact Causes serious eye irritation.

Symptoms/effects after ingestion Swallowing a small quantity of this material will result in serious health hazard.

Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Special protective equipment and precautions for fire-fighters

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any Firefighting instructions

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

: Gloves. Safety glasses. Protective equipment

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

: Ventilate area. **Emergency procedures**

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Hygiene measures

Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible products Strong oxidizers.

: Sources of ignition. Generation of airborne dust. Incompatible materials

SECTION 8: Exposure controls/personal protection

Control parameters

EDTA, Disodium, Dihydrate (6381-92-6)

No additional information available

Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Dust/aerosol mask.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Dust formation: dust mask

Personal protective equipment symbol(s):

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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state : Solid : Powder. Appearance Color : white Odor : Odorless

Odor threshold No data available

рΗ : 4 - 6 5% solution at 25°C

: 252 °C Melting point

Freezing point : No data available Boiling point : No data available : No data available Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Molecular mass : 372.23 g/mol Solubility : Soluble in water. Water: 11 g/100ml

Log Pow : No data available Auto-ignition temperature No data available Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : Not applicable. Oxidizing properties : None.

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions 10.3.

Not established.

10.4. **Conditions to avoid**

Extremely high or low temperatures.

Incompatible materials

Strong oxidizers.

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Serious eye damage/irritation

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10.6. Hazardous decomposition products

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

EDTA, Disodium, Dihydrate (6381-92-6)	
LD50 oral rat	2000 mg/kg
ATE US (oral)	2000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 4 – 6 5% solution at 25°C

: Causes serious eye irritation. pH: 4 – 6 5% solution at 25°C

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

EDTA, Disodium, Dihydrate (6381-92-6)	
LC50 fish 1	≥ 500 mg/l

12.2. Persistence and degradability

EDTA, Disodium, Dihydrate (6381-92-6)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

EDTA, Disodium, Dihydrate (6381-92-6)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

EDTA, Disodium, Dihydrate (6381-92-6)	
Listed on the United States TSCA (Toxic Substances Control Act) i	nventory
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

EDTA, Disodium, Dihydrate (6381-92-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Revision date : 07/14/2020 Other information : None.

Full text of H-phrases: see section 16:

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : I

E - Safety glasses, Gloves, Dust respirator

SDS US LabChem

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