

# EDTA DISODIUM SALT 2hydr Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010

Issue date:09/03/2020 Revision date: 09/03/2025 Version: 1.0 SECTION 1: Identification

SECTI	ON 1: Identification				
1.1.	Product identifier				
Trade na	ame :	EDTA	DISODIUM SALT 2hydr		
EC-No.	:	205-3	58-3		
CAS-No	. :	6381-	92-6		
Product code		10501	10xxx		
Formula	:	C10H	14N2Na2O8.2H2O		
1.2.	Relevant identified uses of the substar	nce or	mixture and uses advised against		
Recomm			boratory use only		
1.3.	Supplier's details				
1.0.					
6 Wakef Founder 1609 Jol T +27 11	n (Pty)Ltd ield Road s Hill hannesburg - South Africa I 452 1116 - F +27 86 588 0293 @labchem.co.za - <u>www.labchem.co.za</u>				
1.4.	Emergency telephone number				
Emerger	ncy number :	+27 1	1 452 1116		
SECTI	ON 2: Hazards identification				
2.1.	Classification of the substance or mixt				
Acute to Hazardo Acute Ha	Classification according to the United Nations GHS Acute toxicity (oral), Category 5 H303 Hazardous to the aquatic environment - Acute Hazard Not classified Full text of H statements : see section 16				
2.2.	Label elements				
Labellin	g according to the United Nations GHS				
	ord (GHS-ZA)	Warn	ina		
-			- May be harmful if swallowed		
			- Call a POISON CENTER or doctor if y	ou feel unwell.	
2.3.	Other hazards		······································		
	physicochemical, human health and : nental effects	Harm	ful if swallowed.		
SECTI	ON 3: Composition/information	on in	aredients		
3.1.	Substances				
	ce identification codes: See section 1.1				
Name			Product identifier	%	Classification according to
Hume				,,,	the United Nations GHS
disodiur (Main cor	n dihydrogen ethylenediaminetetraacetate, dihydr nstituent)	rate	(CAS-No.) 6381-92-6	≥ 99	Acute Tox. 5 (Oral), H303 Aquatic Acute Not classified
Full text of H-statements: see section 16					
3.2.	Mixtures				
Not appl	icable				
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
	First-aid measures general: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink. Call a poison center or a doctor if you feel unwell.First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.				
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First-aid measures after skin contact	: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.		
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.html). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Rinse mouth. Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST: Dry/sore throat. Coughing.		
Symptoms/effects after skin contact	: Not irritating.		
Symptoms/effects after eye contact	: Not irritating.		
Symptoms/effects after ingestion	AFTER INGESTION OF HIGH QUANTITIES: Gastrointestinal complaints. Change in the haemogramme/blood composition.		
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Lung tissue affection/degeneration.		
Potential adverse human health effects and symptoms	Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Not irritant to skin. Harmful if inhaled. Not irritant to eyes.		
4.3. Indication of any immediate medical a	attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam. Water spray. Dry powder. Foam.		
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.		
5.2. Special hazards arising from the sub-	stance or mixture		
	: DIRECT FIRE HAZARD: Combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".		
Explosion hazard	: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".		
Hazardous decomposition products in case of fire	: On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).		
5.3. Advice for firefighters			
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.		
Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.		
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equ			

No additional information available For non-emergency personnel 6.1.1. : Gloves. Face shield. Protective clothing. Dust cloud production: dust-tight suit. Protective equipment Emergency procedures : Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. For emergency responders 6.1.2. Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 6.2. **Environmental precautions** Avoid release to the environment. 6.3. Methods and material for containment and cleaning up For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.

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Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.		
Other information	: Dispose of materials or solid residues at an authorized site.		
SECTION 7: Handling and storage	9		
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising dust. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Keep container tightly closed.		
Hygiene measures	: Observe strict hygiene. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, inc	uding any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
Storage area	: Store in a dry area. Store in a dark area. Keep container in a well-ventilated place. Meet the legal requirements.		
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.		
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.		
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.		
Packaging materials	: SUITABLE MATERIAL: HDPE. LDPE (Low Density Poly Ethylene). glass. paper. cardboard. MATERIAL TO AVOID: aluminium. copper. nickel. zinc.		
Storage temperature	: 15 – 25 °C		
SECTION 8: Exposure controls/p	ersonal protection		

8.1. Control parameters			
No additional information available			
8.2. Appropriate engineering controls			
Appropriate engineering controls	: Ensure good ventilation of the work station.		
Environmental exposure controls	: Avoid release to the environment.		
8.3. Individual protection measures, su	ch as personal protective equipment (PPE)		
Materials for protective clothing	: GIVE GOOD RESISTANCE: nitrile rubber. chloroprene rubber. PVC		
Hand protection	: Protective gloves against chemicals (EN 374)		
Eye protection	: In case of dust production: protective goggles. Safety glasses		
Skin and body protection	: Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing		
Respiratory protection	: Dust production: dust mask with filter type P2		
Personal protective equipment symbol(s):			



8.4. Exposure limit values for	or the other components
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No additional information available

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: No data available			
: Mild odour. Phenol odour.			
: White.			
: 372.24 g/mol			
: Crystalline solid. Powder.			
: Solid			
9.1. Information on basic physical and chemical properties			
SECTION 9: Physical and chemical properties			

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рН	: 4 – 5 (5 %)
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 252 °C (Anhydrous form)
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	<ul> <li>&gt; 400 °C (Anhydrous form, 1013.25 hPa, EU Method A.16: Relative Self-Ignition Temperature for Solids)</li> </ul>
Decomposition temperature	: > 246 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.0000001 hPa (25 °C, Calculated)
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1.77 (20 °C, Anhydrous form)
Relative density of saturated gas/air mixture	: No data available
Density	: 1770 kg/m³ (20 °C, Calculated)
Relative gas density	: No data available
Solubility	: Soluble in water. Substance sinks in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in toluene. Soluble in chloroform. Soluble in bases. Water: 10.8 g/100ml (20 °C)
Partition coefficient n-octanol/water (Log Pow)	: -4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable (solid)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	
V/OC content	. 0.%

VOC	content

: 0 %

SECTION 10: Stability and reactivity				
10.1. Reactivity				
The product is non-reactive under normal conditions of use, storage and transport.				
10.2. Chemical stability				
Unstable on exposure to light.				
10.3. Possibility of hazardous reactions				
No dangerous reactions known under normal conditions of use.				
10.4. Conditions to avoid				
None under recommended storage and handling conditions (see section 7).				
Incompatible materials				
No additional information available				
6. Hazardous decomposition products				
Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen).				
SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral) : May be harmful if swallowed.				

Acute toxicity (oral)	. May be harmun i swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
EDTA DISODIUM SALT 2hydr (6381-92-6)	
LD50 oral rat	2800 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, Anhydrous form, Oral)

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Potential adverse human health effects and symptoms

: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Not irritant to skin. Harmful if inhaled. Not irritant to eyes.

SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.			
Ecology - air	Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).			
Ecology - water	<ul> <li>Slightly harmful to crustacea. Slightly harmful to fishes. No inhibition of activated sludge.</li> <li>Slightly harmful to algae. pH shift.</li> </ul>			
Hazardous to the aquatic environment, short-term (acute)	Not classified.			
Hazardous to the aquatic environment, long- term (chronic)	: Not classified			
EDTA DISODIUM SALT 2hydr (6381-92-6)				
LC50 fish 1	705 mg/l (US EPA, 96 h, Lepomis macrochirus, Static system, Fresh water, Read-across, Anhydrous form)			
EC50 Daphnia 1	140 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Anhydrous form)			
ErC50 (algae)	> 100 mg/l (EU Method C.3, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Read-across, Anhydrous form)			
BCF fish 1	1.8 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Read-across, Anhydrous form)			
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)			
12.2. Persistence and degradability				
EDTA DISODIUM SALT 2hydr (6381-92-6)				
Persistence and degradability	Not readily biodegradable in the soil. Not readily biodegradable in water.			
Biochemical oxygen demand (BOD)	0.01 g O <sub>2</sub> /g substance			
12.3. Bioaccumulative potential				
EDTA DISODIUM SALT 2hydr (6381-92-6)				
BCF fish 1	1.8 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Read-across, Anhydrous form)			
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)			
Bioaccumulative potential	Not bioaccumulative.			
12.4. Mobility in soil				
EDTA DISODIUM SALT 2hydr (6381-92-6)				
Mobility in soil	No additional information available			
Partition coefficient n-octanol/water (Log Pow)	-4.3 (Experimental value, Equivalent or similar to OECD 107, 25 °C)			
Ecology - soil	Low potential for adsorption in soil.			
12.5. Other adverse effects				
Ozone : Not classified				
Other adverse effects : No additional information available				

SECTIO	SECTION 13: Disposal considerations					
13.1.	Disposal methods					
Waste tre	atment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				

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Product/Packaging disposal recommendations	:	Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.
Additional information	:	Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

#### **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ		
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group	I			
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No		
	:			
No supplementary information available				
14.6. Special precautions for user				

### - SANS Transport regulations (UN) : Not subject - IMDG Transport regulations (IMDG) : Not subject - IATA

 Transport regulations (IATA)
 : Not subject

 14.7.
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information					
15.1. Safety, health, and environmental nation	Safety, health, and environmental national regulations specific for the product				
Regulatory reference :	SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.				
SECTION 16: Other information					
Issue date :	09/03/2020				
Revision date :	09/03/2025				
Full text of H-statements:					
H303	May be harmful if swallowed				

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.