



EDTA Acid

AGent

AGent SDS: EDTA Acid [2026.01]

Version No: 2026.01

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 2

Issue Date: June 2026

Print Date: (auto-fills on print)

AGENT.GHS.AUS.EN.E

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

Product Identifier

Product name	EDTA Acid
Chemical Name	Ethylenediaminetetraacetic acid
Synonyms	EDTA; edetic acid; glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-]
Proper shipping name	ETHYLENEDIAMINETETRAACETIC ACID (EDTA Acid — Not classified as a Dangerous Good)
Chemical formula	C ₁₀ H ₁₆ N ₂ O ₈
Other means of identification	EDTA Acid [2026.01]

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

Identified uses	Complexing / chelating agent.
Uses advised against	Avoid dust generation. Not for domestic / unprotected consumer use.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NOT a Dangerous Good. Harmful if inhaled; eye irritant; may cause organ damage on prolonged / repeated exposure; not classified as a Dangerous Good under the ADG Code.

Poisons Schedule (SUSMP)	Not Scheduled (SUSMP — none allocated)
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Classification

- Acute Toxicity (Inhalation) Category 4 — H332
- Serious Eye Damage/Eye Irritation Category 2A — H319
- Specific Target Organ Toxicity (Repeated Exposure) Category 2 — H373

Label elements

Hazard pictogram(s)	
Signal word	WARNING

Hazard statement(s)

- H319 — Causes serious eye irritation.
- H332 — Harmful if inhaled.
- H373 — May cause damage to organs through prolonged or repeated exposure.

Supplementary statement(s)

May form combustible dust-air mixture if dispersed.

Precautionary statement(s) Prevention

- P260 — Do not breathe dusts or mists.
- P264 — Wash hands thoroughly after handling.
- P271 — Use only outdoors or in a well-ventilated area.
- P280 — Wear eye protection / face protection.

Precautionary statement(s) Response

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 — Call a POISON CENTRE / doctor if you feel unwell.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313 — If eye irritation persists: Get medical advice.

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container in accordance with local, state and federal regulations.

Other hazards

Combustible dust — may form explosible dust-air mixture if dispersed.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
60-00-4	≥ 99	Ethylenediaminetetraacetic acid (EDTA)	Acute Tox. 4 (H332); Eye Irrit. 2A (H319); STOT RE 2 (H373)

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

Immediately flush eyes with running water, holding eyelids open and occasionally lifting the lids. Remove contact lenses if easy to do. Continue rinsing for at least 15 minutes. If irritation persists, get medical advice.

Skin Contact

Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation occurs, get medical advice.

Inhalation

Remove person to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, apply resuscitation. Call a Poisons Information Centre / doctor.

Ingestion

Rinse mouth, then drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a Poisons Information Centre / doctor (Australia 131 126; New Zealand 0800 764 766).

Most important symptoms and effects, both acute and delayed

Harmful if inhaled — irritates the respiratory tract. Eye contact causes irritation (redness, pain). Skin contact may cause irritation. Ingestion of large amounts may cause hypocalcaemic tetany (calcium chelation), kidney injury and blood-chemistry changes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Be alert to hypocalcaemia / chelation effects after large ingestion. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Dry chemical, carbon dioxide, foam or water spray.

Special hazards arising from the substance or mixture

Fire Incompatibility

May burn but does not ignite readily. Combustible dust — dust cloud may explode. Fire produces irritating / toxic fumes (oxides of carbon and nitrogen).

Advice for firefighters

Fire Fighting

Fire fighters to wear self-contained breathing apparatus (SCBA). Do NOT allow fire-fighting water to reach waterways or drains.

Fire / Explosion Hazard

Combustible-dust hazard if dispersed in air.

HAZCHEM Code	None allocated
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Eliminate ignition sources. Avoid generating dust. Do not breathe dust; avoid contact with eyes / skin. Ensure adequate ventilation. Use PPE per Section 8.

Environmental precautions

Prevent entry into drains and watercourses. Advise local authorities if significant spillage cannot be contained. See Section 12.

Methods and material for containment and cleaning up

Minor Spills

Mechanically recover (sweep / shovel) into a labelled container for disposal per Section 13. Prevent dust cloud.

Major Spills

Eliminate ignition sources. Avoid dust generation. Collect into labelled containers for disposal per Section 13. Prevent entry to drains and confined areas.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Ensure safety showers / eyewash are available. Minimise dust generation and accumulation. Do not breathe dust; avoid eye / skin contact. Take precautions against static discharge (grounding / bonding). Use PPE per Section 8.

Other information

Keep away from heat and ignition sources. Keep away from food and incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container

Keep in the original container, tightly closed, in a cool, dry, well-ventilated place out of direct sunlight.

Storage incompatibility

Incompatible / reactive with copper, copper alloys and nickel. Store away from heat / ignition sources, food and incompatible materials (see Section 10).

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
SWA WEL 2024	Inhalable dust (not otherwise specified)	EDTA dust	10 mg/m ³ (inhalable dust, n.o.s.)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	No specific WEL for EDTA; dust-n.o.s. limit applied.
SWA WEL 2024	Respirable dust (not otherwise specified)	EDTA dust	3 mg/m ³ (respirable dust, n.o.s.)	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	Dust-n.o.s. limit applied.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
EDTA	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH		Revised IDLH
EDTA	Not established (NIOSH)		Not established (NIOSH)

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Wear gloves and protective clothing (per AS/NZS 2161 / 2210). Inspect gloves before use; dispose of contaminated gloves and wash hands. Safety glasses or goggles; P1 / P2 dust respirator where dust risk exists.

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Solid — white powder
Physical state	Solid (powder)
Odour	Odourless
Odour threshold	No data available in source SDS
pH (as supplied)	2.8 – 3
Melting point / freezing point (°C)	220 °C
Initial boiling point and boiling range (°C)	No data available in source SDS (decomposes)
Flash point (°C)	Not applicable — non-combustible (combustible dust)
Evaporation rate	Not applicable — solid
Flammability	Combustible dust
Upper Explosive Limit (%)	Not applicable (dust explosion hazard — see §10)
Lower Explosive Limit (%)	Not applicable (dust explosion hazard — see §10)
Vapour pressure (kPa)	Not applicable — solid
Solubility in water	Slightly soluble (400 mg/L @ 20 °C)
Vapour density (Air = 1)	Not applicable — solid
Relative density (Water = 1)	1.46 g/cm ³
Partition coefficient n-octanol/water	log Kow = -3.86 @ 25 °C
Auto-ignition temperature (°C)	No data available in source SDS
Decomposition temperature (°C)	No data available in source SDS
Viscosity (cSt)	Not applicable — solid
Molecular weight (g/mol)	292.24 g/mol
Taste	Not applicable — do not taste
Explosive properties	Combustible dust — dust cloud may explode
Oxidising properties	None known
Surface Tension (dyn/cm or mN/m)	Not applicable — solid
Volatile Component (% vol)	Not applicable — solid
Gas group	Not applicable
pH as a solution (1%)	Approximately 2.8 – 3
VOC g/L	0 g/L — solid; no VOC

SECTION 10 Stability and reactivity

Reactivity	No hazardous reactivity under normal conditions. Combustible dust. See Section 7.
Chemical stability	Stable under normal conditions of use, storage and temperature.
Possibility of hazardous reactions	Polymerisation not expected. Under normal conditions, hazardous decomposition products should not be produced.
Conditions to avoid	Dust generation; heat; ignition sources; static discharge.
Incompatible materials	See Section 7. Copper; copper alloys; nickel.
Hazardous decomposition products	See Section 5. Oxides of carbon and nitrogen.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Harmful if inhaled (H332). Irritates the mucous membrane and upper respiratory tract.

Ingestion

May cause GI irritation (nausea, vomiting, diarrhoea). Large amounts may cause hypocalcaemic tetany, kidney injury, muscle cramps, bone-marrow depression and allergic reaction (chelation).

Skin Contact

May cause irritation (redness, pain).

Eye

Serious eye irritant (H319) — redness and pain.

Chronic

May cause damage to organs through prolonged or repeated exposure (H373).

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
EDTA	Oral LD50 (rat): 4,500 mg/kg; Inhalation LC50 (rat): 30 mg/m ³ (4 h)	Eye / skin irritant; STOT RE 2
Not applicable	Not applicable	Not applicable

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	✓	Carcinogenicity	—
Skin Irritation/Corrosion	—	Reproductive Toxicity	—
Serious Eye Damage/Irritation	✓	STOT — Single Exposure	—
Respiratory or Skin Sensitisation	—	STOT — Repeated Exposure	✓
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

Absorbed by inhalation of dust / aerosol and by ingestion.

Additional Information

RTECS	AH4025000
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
EDTA	LC50	96 hr	Danio rerio (Zebrafish)	≥ 25.7 mg/L	AGent SDS / PubChem
EDTA	EC50	48 hr	Daphnia magna	≥ 140 mg/L	AGent SDS

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
EDTA	Readily biodegradable (per source SDS — note: free EDTA acid is more degradable than its metal complexes).	Not applicable — non-volatile solid.

Bioaccumulative potential

Ingredient	Bioaccumulation
EDTA	Not expected to bioaccumulate (log Kow -3.86).

Mobility in soil

Ingredient	Mobility
EDTA	Slightly soluble; mobile as the chelating anion in water; complexes and mobilises trace metals.

Other adverse effects

Chelating agent — may mobilise heavy metals in the environment. Avoid uncontrolled discharge to waterways.

SECTION 13 Disposal considerations**Waste treatment methods****Product / Packaging disposal**

- Recycle wherever possible.
- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Empty containers should be returned via AGent's Closed Loop container return program where applicable.
- Whatever cannot be saved for recovery or recycling should be managed through an approved waste disposal facility.
- Dispose of in accordance with local, state and federal regulations.

SECTION 14 Transport information

Labels Required	Not Applicable — Not a Dangerous Good
Marine Pollutant	No
HAZCHEM Code	None allocated

Land transport (ADG)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	ETHYLENEDIAMINETETRAACETIC ACID (EDTA Acid — Not classified as a Dangerous Good)
Transport hazard class(es)	Not classified as a Dangerous Good by the criteria of the ADG Code for transport by road or rail
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	None allocated — Not a Dangerous Good.
ERG / EIP number	Not Applicable — Not a Dangerous Good

Air transport (ICAO-IATA / DGR)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name (lowercase)	Ethylenediaminetetraacetic acid (Not classified as a Dangerous Good)
ICAO/IATA Class	Not classified as a Dangerous Good by the criteria of the IATA Code for transport by air
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special provisions	Not Applicable — Not a Dangerous Good.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	Not Applicable — Not classified as a Dangerous Good
UN proper shipping name	ETHYLENEDIAMINETETRAACETIC ACID (EDTA Acid — Not classified as a Dangerous Good)
IMDG Class	Not classified as a Dangerous Good by the criteria of the IMDG Code for transport by sea
Packing group	Not Applicable
Environmental hazard	Not a Marine Pollutant
EMS Number	Not Applicable — Not a Dangerous Good
Special provisions	Not Applicable — Not a Dangerous Good.

Transport in bulk according to MARPOL Annex II and the IBC Code

Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
EDTA Acid	Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
EDTA Acid	Not Applicable — AGent does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

EDTA (CAS 60-00-4) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Acute Tox. 4 (inhalation) / Eye Irrit. 2A / STOT RE 2
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): None allocated
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGent does not export this product
Canada (NDSL)	Not applicable — AGent does not export this product
China (IECSC)	Not applicable — AGent does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGent does not export this product
Japan (ENCS)	Not applicable — AGent does not export this product
Korea (KECI)	Not applicable — AGent does not export this product
New Zealand (NZIoC)	Not applicable — AGent does not export this product
Philippines (PICCS)	Not applicable — AGent does not export this product
USA (TSCA)	Not applicable — AGent does not export this product
Taiwan (TCSI)	Not applicable — AGent does not export this product
Mexico (INSQ)	Not applicable — AGent does not export this product
Vietnam (NCI)	Not applicable — AGent does not export this product
Russia (FBEPH)	Not applicable — AGent does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	June 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.01 (AGent 2026 format)	June 2026	Reformatted from legacy V1.1 to AGent 2026 layout. §8 updated to SWA WEL 2024 (dust n.o.s.); removed superseded legacy abbreviations and exposure-standard references; AICS updated to AIIC. Classification unchanged (Acute Tox. 4 inhalation, Eye Irrit. 2A, STOT RE 2; Non-DG).
V1.1 (legacy AGent format)	March 2023	Older format. Acute Tox. 4 (inhalation) / Eye Irrit. 2A / STOT RE 2; Non-Dangerous Goods.

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet
Sk	Skin notation — absorption through the skin a significant route
STEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit
TLV	Threshold Limit Value

TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)
WHS	Work Health and Safety

Disclaimer

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