

KYNOCH FERTILIZER

SAFETY DATA SHEET

Fe 13 EDTA

Date Issued / Revised Date : 25 September 2022

New version : 3.0

Date previously revised : 1 February 2021

Replaced version : 2.0

Prepared according to: United Nations GHS (Rev 9E) (2021) and SANS 10234:2019

(This Safety Data Sheet conforms to the requirements set by the Department of Agriculture, Land reform and Rural development of the Republic of South Africa on the 29 March 2022)

SECTION 1: IDENTIFICATION

1.1 GHS product identification

Product Name : Fe 13 EDTA

¹ GHS - Globally Harmonized System of Classification and Labelling of Chemicals

1.2 Other means of identification

Description : Ferro/Iron EDTA
Chemical name : Sodium feredetate

CAS Number ² : **15708-41-5** EC Number ³ : **239-802-2**

1.3 Recommended use of materials and restrictions on use

Recommended use of material : Intended to be used as a fertilizer and in fertilizer blends

Description : Source of plant nutrients

Restrictions on use : None Identified

1.4 Supplier's details

Supplier's details : 1st Floor, ETG House

62 Weirda Road East

Sandton

2196

Tel no: (011) 317-2000

1.5 Emergency phone number

Emergency phone number : Dial Triple Zero (000) and ask for fire

: Ambulance or the Fire department - 10177

Spilltech - 086 100 0366

Kynoch - 086 092 7272

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² "CAS Number" - CAS Number is a numerical designation for chemicals that is maintained by the Chemical Abstracts Service (CAS) of the American Chemical Society.

^{3 &}quot;EC Number" - The European Community number (EC number) is a unique identifier that was assigned to substances for regulatory purposes within the European Union by the European Commission.

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Product Defined : Substance

Summarized Classification

Types of Hazards	Hazard Class	Category/subcategory	H-Statement
Physical Hazards	Not Classified 1		
Health Hazards	Not Classified		
Environmental Hazards	Not Classified		

Classification according to the United Nations GHS (Rev 9E) (2021) and SANS 10234:2019

Classification by Organization

Organization	Substance	CAS Number	Classification
EPA-NZ	Fe 13 EDTA	15708-41-5	Not Listed
ECHA	Fe 13 EDTA	15708-41-5	No Classification
ILO (WHO)	Fe 13 EDTA	15708-41-5	Not Listed
AICIS	Fe 13 EDTA	15708-41-5	Not Listed

Reference: (European Chemical Agency [ECHA], n.d.) & (Environmental protection agency [EPA]. New Zealand Government, n.d.) & (The Australian Industrial Chemicals Introduction Scheme [AICIS], n.d.) & (International Labour organization [ILO], n.d.)

2.2 GHS Label elements, including precautionary statements

Pictogram : No Classification
Pictogram Name : No Classification
Signal Word : No Signal word.

Hazard Statements : N/A
Precautionary Statements : N/A

Reference: (Pubchem, GHS, n.d.)

2.3 Other hazards that do not result in classification

: Non specified

Reference: (European Chemical Agency [ECHA], n.d.) & (Pubchem, search, n.d.)

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Common name : Fe EDTA

EC Name : Sodium feredetate
Chemical Formula : C10H12N2O8FeNa

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¹ "Not Classified" – Data conclusive but not at sufficient levels for classification.

² "H-Statement" – Hazard Statement. Full decryption in Section16

Molecular Weight : 367.05 g/mol
Nutrient Content : 13% Iron (Fe)
CAS Number : 15708-41-5
EC Number : 239-802-2

Impurities and stabilizers : N/A

Reference: (European Chemical Agency [ECHA], n.d.) & (The Australian Industrial Chemicals Introduction Scheme [AICIS], n.d.)

3.2 Mixture

Mixture : N/A

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information : In all cases of doubt, or when symptoms persist, seek medical attention.

After inhalation : Dust may be irritating to the respiratory tract and cause symptoms of

bronchitis. Move to fresh air. If symptoms persist, seek medical advice.

After skin contact : Take off contaminated clothing immediately. Wash immediately with soap

and water. Launder clothes before reuse.

After eye contact : Rinse thoroughly with plenty of water. Eyelids should be held away from

the eyeball to ensure thorough rinsing. Seek medical advice if irritation

develops.

After swallowing : Rinse mouth, give water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Effects : No typical effects known.

Symptoms : No typical symptoms known.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing medium

Suitable extinguishing agents : Water spray, foam, carbon dioxide, dry chemical powder.

Inappropriate extinguishing media : None known.

Notes : Use fire extinguishing methods suitable to surrounding conditions.

5.2 Specific hazards arise from chemical

Warning : Not applicable.

Hazardous Combustion Products : Nitrous gasses may be produced.

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^{1 &}quot;N/A" - Not available

Fire hazard : Do not breath fumes.

Explosion hazard : Do not breath fumes.

Reactivity : Not specified

5.3 Special protective action for Fire-Fighters

Special protective actions for firefighters

- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
- : No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

- : Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- : Clothing for fire-fighters (including helmets, protective boots, and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Percussions : No action shall be taken involving any personal risk or without suitable

training.

Equipment : Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

Procedure : Evacuate surrounding areas. Keep unnecessary and unprotected personnel

from entering. Do not touch or walk through spilt material. Provide

adequate ventilation.

6.2 Environmental precautions

Environmental : Avoid dispersal of spilt material and runoff and contact with soil,

waterways, drains and sewers.

: Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil, or air).

: Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Small Spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste

disposal contractor.

Large Spill : Move containers from spill area. Approach the release from upwind.

Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labelled waste

container. Dispose of via a licensed waste disposal contractor.

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¹ PPE – Personal precautions, protective equipment.

6.4 Reference to other sections

Section 7 : Information on safe handling.

Section 8 : Information on personal protection equipment.

Section 13 : For disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

: Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Wear protective gloves/eye protection/face protection/. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.

: For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storerooms and receptacles : No specific recommendations.

One common storage facility : Protect from moisture and wet air.

Handling of product : Avoid dust formation. Keep container tightly closed and dry.

Room conditions : Protect from moisture and wet air.

Storage Class : (TRGS 510): 10 - 13 Other liquids and solids: Non-Combustible Solids

Reference: (BAUA, 2016)

Handling

7.3 Specific end use(s)

: Apart from the uses mentioned in section 1.3 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROL AND PERSONNEL PROTECTION

8.1 Control Parameters STEL² TWA 1 Compound Cas Number Fe EDTA South African Labour 15708-41-5 Not Listed Not Listed Department Fe EDTA Not Listed Not Listed International Labour 15708-41-5 organization (ILO) **OCHA** 15708-41-5 Not Listed Not Listed Fe EDTA

Reference: (South African Labour Department, 2021) & (ILO, n.d.) & (OSHA, n.d.)

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¹ TWA – Long term exposure: Time Weighted Average (8-hour period)

² STEL – Short term exposure: Short term exposure limit (15 min period)

Routes of exposure : The substance can be absorbed into the body by inhalation of dust.

Inhalation risk : Not Specified

Effects of short-term exposure : Not Specified

Effects of long-term or repeated : Not Specified

exposure

Reference: (ILO, n.d.)

8.2 Appropriate engineering controls

: See Section 7.

8.2 Individual protection measures

Eye/face protection : Wear safety glasses.

Use equipment for eye protection tested and approved under appropriate government standards. SABS adoption: SANS 50166:2018(SA), EN 166(EU) or

NIOSH (US).

Skin 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.

Body Protection : Choose body protection in relation to its type, to the concentration and amount of

dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

Respiratory protection : Respiratory protection only necessary if risk assessment indicates this.

Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

Control of environmental exposure No special environmental precautions required





SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Properties

Physical state : Solid ¹

Composition : Mono-constituent substance

Colour : Yellow-green
Odour : Odourless

Melting point/freezing point : 211°C

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Boiling point or initial boiling point

and boiling range

: The study does not need to be conducted because the substance is a solid

which decomposes before boiling.

Flammability : No ignition of substance and consequently no propagation of burning.

Product is not flammable

Lower and upper explosion

limit/flammability limit

: No explosion in the tests with an orifice of 2 and 6 mm diameter.

The substance is not thermally sensitive.

Flash point : The study does not need to be conducted because the substance is

inorganic. The study does not need to be conducted because the flash

point is only relevant to liquids and low melting point solids

Auto-ignition temperature : 207°C

Oxidizing Properties : Non oxidising

Decomposition temperature : 211°C

pH : **4.0-5.5 (1% solution)**

Kinematic viscosity : Not applicable

Solubility : 72 g/l water @ 25°C

Partition coefficient: n-octanol/water

(log value)

The study does not need to be conducted because the substance is

inorganic.

Vapour pressure : N/A

Density and/or relative density : 1.781 g/cm³ @ 20°C

Relative vapour density : Not determined

Bulk Density (Volumetric) : 800 - 1000 kg/m³

Particle characteristics : d10 was 31.2 µm

d50 was 103 um

d90 was 255 µm was 0.7%

32.8% was <100 µm

Molecular Formula : C10H12N2O8FeNa

Molecular Weight : 367.05 g/mol

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

SECTION 10: STABILITY AND REACTIVITY

Reactivity : Not specified.

Chemical stability : Stable under normal conditions.

Hazardous Reactions : A dangerous reaction will not occur.

Conditions to Avoid : Avoid humidity and water.

Incompatible Materials : Aluminium.

Hazardous Decomposition Products : Not specified.

Reference: Minema Chemicals (2022)

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¹ "Solid" – Is a substance that cannot be classified as a liquid or Gas.

² "Substance" – Is chemical elements and their compounds in their natural state or obtained by production process)

SECTION 11: TOXICOLOGY

11.1 Acute Toxicity

Classification : Not classified.

Description : Based on the very low toxicity of Fe EDTA via the oral route, and the

expected very low toxicity via the inhalation route and taking into account low dermal absorption of ADTA-compounds, no classification is needed for

acute toxicity.

Method	Compound	Cas Number	Measure	Value	Subject
Oral	Fe EDTA	15708-41-5	LD50 ¹	2000 mg/kg bw	Rat
Inhalation	Fe EDTA	15708-41-5	LC50	>2.75 Mg/L	Rat
Dermal	Fe EDTA	15708-41-5	LD50	2000 mg/kg bw	Rat

¹ "LD50" – Lethal Doses. The dosage at which 50% mortality was observed.

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.) & (EPA. New Zealand Government, n.d.)

11.2 Skin corrosion/irritation

Classification : No Classification

Description : Very slight erythema (grade 1) was observed in one animal at 1 h after

removal of the patch. There were no further skin reactions and no systemic

adverse effects.

Subject : Rabbit

Reference: (ECHA, n.d.)

11.3 Serious eye damage/irritation

Classification : No Classification

Description : Although the test item induced slight irritation, no classification is needed

according to OECD-GHS.

Subject : Rabbit

Reference: (ECHA, n.d.)

11.4 Respiratory or skin sensitisation

Classification : No Classification

Description : Under the conditions of this test, EDTA-FeNa was not considered to be a

skin sensitizer.

Subject : Mouse

Reference: (ECHA, n.d.)

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² "LDLo" - The lethal dose low is the lowest dosage of a compound that is introduced to the human body or that of an animal by any means apart from inhalation that will cause the death of the individual.

³ "LC0" – The lethal concentration 0 represents the concentration at which no individuals are expected to die.

^{4 &}quot;bw" - body-weight/day

11.5 Germ cell mutagenicity

Classification : No Classification

Description : The test substance gave negative results in three in vitro mutagenicity

> studies, viz. the Ames test, the WP2 Mutoxitest, and the micronuclueus test following exposure for 4 h (with and without S9 mix) but gave positive results (aneugenicity) following exposure for 20 h (without S9 -mix). The

latter was most probably explained by induction of Zn deficiency.

Mouse Subject

Reference: (ECHA, n.d.)

11.6 Carcinogenicity

: No Classification Classification

Description : EDTA-FeNa has a wide dispersive use; however, EDTA-FeNa is not

> classified as mutagen category 3 and there is no evidence from repeated dose studies that EDTA-FeNa is able to induce hyperplasia and/or pre-

neoplastic lesions.

Subject : N/A

Reference: (ECHA, n.d.)

11.7 Reproductive toxicity

Classification : No Classification

: As EDTA and the zinc chelate of EDTA obviously lack a specific teratogenic Description

potential (RAR, 2004), it is expected that this applies to EDTA-FeNa too. In addition, because malformations caused by EDTA compounds have been demonstrated at relatively high oral dose levels (i.e. 1000 mg/kg bw and above) and a steep dose response relationship can be assumed (RAR.

2004), no classification for reprotoxicity is needed.

: N/A Subject

Reference: (ECHA, n.d.)

11.8 STOT 2- single exposure

Classification : No data available.

² "STOT" - Specific target organ toxicity.

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

11.9 STOT 2- repeated exposure

Classification : No Classification

Description : NOAEL is > 84 mg/kg bw/day for rats after 31/61 days of exposure via the

food. As the NOAEL most probably is in excess of 100 mg/kg bw, no

classification is needed.

Subject : Rat

² "STOT" - Specific target organ toxicity.

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

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11.10 Aspiration hazard

Classification : Data conclusive but not sufficient for classification.

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

11.11 Route of Exposure and potential effects

Swallowing : Not specified.

Inhalation : Not specified.

Eye exposure : Not specified.

Skin exposure : Not specified.

Reference: (ECHA, n.d.)

11.12 Long- and short-term effects

No data available

Reference: (ECHA, n.d.)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Classification : Triggers for classification are not met.

Aquatic Toxicity :

Compound	Cas Number	Organism	Species	Time	Measure	Value
Fe EDTA	15708-41-5	Fish	Rainbow trout	96-h	LC50 ¹	100 mg/L
Fe EDTA	15708-41-5	Aquatic invertebrates	Daphnia magna	48-h	EC50 ³	100.9 mg/L
Fe EDTA	15708-41-5	Aquatic Algae and Cyanobacteria	Pseudokirchneriella subcapitata	72-h	EC50	>87.3 mg/L
Fe EDTA	15708-41-5	Micro-organisms	Activated sludge	3-h	NOEC	>640 mg/L

Terrestrial Toxicity

Compound	Cas Number	Organism	Species	Time	Measure	Value
Fe EDTA	15708-41-5	Macro-organisms				Not Specified
Fe EDTA	15708-41-5	Arthropods				Not Specified
Fe EDTA	15708-41-5	Plant				Not Specified
Fe EDTA	15708-41-5	Micro organisms				Not Specified
Fe EDTA	15708-41-5	Birds	Bobwhite quail	14 days	LC50	5000 mg/kg bw

¹ "LC50 /EC50" - (Median Lethal Concentration/Median Effective Concentration) They are the concentrations at which 50% mortality or inhibition of a function (e.g., growth or growth rate) was observed.

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

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² "NOEC" - No Observed Effect Concentration. NOEC is the highest tested concentration for which there are no statistically significant difference of effect when compared to the control group.

³ "ECx" - It is the concentrations at which x % (10% for EC10) effect was observed or derived statistically when compared to the control group.

12.2 Persistence and degradability

Stability : EDTA is resistant to hydrolysis.

Biodegradation : EDTA (acid form) and its salts are not readily biodegradable according to

OECD criteria.

Reference: (ECHA, n.d.)

12.3 Bioaccumulate potential

Description : Bioaccumulation testing for EDTA-FeNa.3H2O is not required, as the

substance has a low potential for bioaccumulation (the log Kow is <3).

Reference: (ECHA, n.d.)

12.4 Mobility in soil

Adsorption : Due to the ionic structure under environmental relevant pH conditions, no

adsorption onto the organic fraction of soils or sediments is expected.

Volatilization : Volatilization is unlikely due to the properties of the substance.

Reference: (ECHA, n.d.)

12.5 Other adverse effects

Classification : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

12.1 UN Modelled regulations

UN Number : Not regulated

UN proper shipping name : Not listed

Transport hazard class(es) : No classification

Packing group : No classification

Environmentally hazardous : No classification

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Special precautions: : ADR/RID - Not specified

IMDG² - Not specified IATA³ - Not Specified

Transport in Bulk according to IMO : Not specified

instructions

Reference: (Hazmat Tool. n.d.) & (BAM. 2021)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health, and environmental regulations specific for the substance or mixture

Regulations : This Safety Data Sheet conforms to the requirements set by the

Department of Agriculture, Land reform and Rural development of the Republic of South Africa, United Nations GHS (Rev 9E) (2021) and SANS

10234:2019, on the 29 March 2022.

Restrictions : The substance is not subjected to any prohibitions or restriction in South

Africa.

Chemical Safety Assessment: : For this product a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

16.1 Preparation and revision

Latest Version

Version Number : Ver. 3

Preparation Date : 25 August 2022

Where the changes as made : Complete overall of all data to comply with GHS regulations

Previous Version

Version Number : Ver. 2

Preparation date : February 2021

16.2 Abbreviations and Acronyms

GHS : Globally Harmonized System of Classification and Labelling of Chemicals ECHA : European Chemical agency

AICIS The Australian Industrial Chemicals Introduction Scheme

EPA-NZ : Environmental protection agency New Zealand

ILO (WHO) : International labour organization (World health organization)

CAS Number : CAS Number is a numerical designation for chemicals that is maintained by the Chemical Abstracts

Service (CAS) of the American Chemical Society.

EC Number : The European Community number (EC number) is a unique identifier that was assigned to

substances for regulatory purposes within the European Union by the European Commission.

H-Statement : Hazard Statement
P-Statement : Precautionary Statements

Hazard Statements : H319 - Causes serious eye irritation

Precautionary Statements : P264 - Wash hands [and ...] thoroughly after handling.

P265 - Do not touch eyes.

: P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection/...

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¹ ADR/RID - International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)

² IMDG - The International Maritime Dangerous Goods (IMDG)

³ IATA - International Air Transport Association (IATA)

N/A : Not Applicable

Not Classified Data conclusive but not at sufficient levels for classification

PPE : Personal precautions, protective equipment.

TWA : Time Weighted Average
OEL : Occupational Exposure Limits
STOT : Specific target organ toxicity

LC50 / EC50 : (Median Lethal Concentration/Median Effective Concentration): They are the concentrations at which

50% mortality or inhibition of a function (e.g., growth or growth rate) was observed.

NOEC : (No Observed Effect Concentration) NOEC is the highest tested concentration for which there are no

statistically significant difference of effect when compared to the control group

It is the concentrations at which x % (10% for EC10) effect was observed or derived statistically when

compared to the control group

LD0 : Lethal Dose 0, represents the dose at which no individuals are expected to die.

Lethal concentration 0, represents the concentration at which no individuals are expected to die.

LDLo : Lethal dose low, is the lowest dosage of a compound that is introduced to the human body or that of

an animal by any means apart from inhalation that will cause the death of the individual.

16.3 References

ECx

LC₀

BAM. (2021) Dangerous Goods Database. Retrieved From https://www.dgg.bam.de/quickinfo/en/#list/

(The BAM offers with the expert portal TES information and service concerning the transport and packaging of dangerous substances and goods as well as explosives act)

BAUA. (2016). Technical Rule for Hazardous Substances. TRGS 510 Storage of hazardous substances in non-stationary containers. Retrieved from https://www.baua.de/EN/Service/Legislative-texts-and-technical-rules/Rules/TRGS/TRGS-510.html

(The German Federal Institute for Occupational Safety and Health offers selected publications in English. Baua's research aims to ensure a safe and healthy working environment that is adapted to the needs of humans.)

Environmental protection agency [EPA]. New Zealand Government. (n.d.) Database search. Chemical Classification and Information Database (CCID). Retrieved from https://www.epa.govt.nz/search/SearchForm?SiteDatabaseSearchFilters=0&Search=

(EPA-Environmental protection agency. EPA is the government agency responsible for regulating activities that affect Aotearoa New Zealand's environment.)

European Chemicals Agency [ECHA]. (n.d.) Information on Chemicals. Retrieved from https://echa.europa.eu/registration-dossier/-/registered-dossier/

(ECHA - European Chemicals Agency. The European Chemicals Agency, is an agency of the EU. They implement the EU's chemicals legislation to protect your health and the environment. There work also contributes to a well-functioning internal market, innovation, and the competitiveness of Europe's chemicals industry.)

Hazmat Tool. (n.d.) Load, Transport and Storage of Hazardous Materials according U.S-Hazardous Materials Regulations (49 CFR). Retrieved from https://www.hazmattool.com/info.php?language=en/

(Hazmat Tool is a free to search database with information regarding the 49CRF classification and transport)

International Labour organization [ILO]. (n.d.) ICSC database. International Chemical Safety Cards (ICSCs). Retrieved from https://www.ilo.org/dyn/icsc/showcard.display?p_lang=en&p_card_id=&p_version=2

(ILO-International Labour organization. ILO is a specialized agency of the United Nations. The database data was prepared by an international group of experts on behalf of ILO and WHO, with the financial assistance of the European Commission. © ILO and WHO 2021.)

Minema Chemicals (2022) Search for MSDS or Specification Documents. Retrieved from http://www.minema.co.za/msds/

(MINEMA Chemicals provide MSDS information and documentation on a variety of chemicals)

OECD. (n.d.) The Global Portal to Information on Chemical Substances. Classification Search. Retrieved from https://www.echemportal.org/echemportal/ghs-search/

(OECD allow the search by chemical and provides a list and access to compiled SDS's)

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Pubchem, search. (n.d.) Explore Chemistry. *Quickly find chemical information from authoritative sources.* Retrieved from https://pubchem.ncbi.nlm.nih.gov/compound/

(PubChem is an open chemistry database at the National Institutes of Health (NIH). Pubchem may reference some of the same sources as listed in this document)

Pubchem, GHS. (n.d.) Explore Chemistry. GHS Classification. Retrieved from https://pubchem.ncbi.nlm.nih.gov/ghs/

(PubChem is an open chemistry database at the National Institutes of Health (NIH). Pubchem may reference some of the same sources as listed in this document)

South African Labour Department. (2021) Regulations for Hazardous Chemical Agents. Retrieved from https://www.gov.za/sites/default/files/gcis_document/202103/44348rg11263gon280.pdf

(The Minister of Employment and Labour has, under section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), after consultation with the Advisory Council for Occupational Health and Safety, made the regulations in the Schedule)

The Australian Industrial Chemicals Introduction Scheme [AICIS]. (n.d.) Chemical information. Search assessments.

Retrieved from https://www.industrialchemicals.gov.au/chemical-information/search-assessments?assessmentcasnumber=

(The Australian Industrial Chemicals Introduction Scheme (AICIS) helps protect Australians and the environment by assessing the risks of industrial chemicals and providing information to promote their safe use. Focus mainly on heath aspects.)

16.4 Disclaimer

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation.

This SDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product and in particular how to safely handle, use, store and transport the product. Since Kynoch cannot anticipate or control the conditions under which the product may be handled, used, stored, or transported, each user must, prior to usage, review this SDS in the context of how the user intends to handle, use, store or transport the product and beyond, and communicate such information to all relevant parties.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part.

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