

KYNOCH FERTILIZER

SAFETY DATA SHEET

K-Max

:

Date Issued / Revised Date New version Date previously revised Replaced version

K-Max

2

25 September 2022 3.0 1 February 2021 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

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

1.2 Other means of identification		
Description	: Potassium sulphate and magnesium sulphate	
CAS Number	: N/A	
EC Number ³	: N/A	

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 "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.

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 numb	ber	
Emergency phone number	:	Dial Triple Zero (000) and ask for fire
	:	Ambulance or the Fire department – 10177
	:	Kynoch – 086 092 7272
	:	Spilltech - 086 100 0366

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Product Defined

: Mixture

Summarized Classification

Types of Hazards	Hazard Class	Category/subcategory	H-Statement
Physical Hazards	Not Classified		2
Health Hazards	Not Classified		
Environmental Hazards	Not Classified		

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

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

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

Types of Hazards	Hazard Class	Category/subcategory	H-Statement
Potassium Sulphate	Not Classified		2
Kieserite	Not Classified		

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

Hazards

: Non listed

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Substance

: N/A

¹ "N/A" – Not available

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

3.2 Mixture

Substance A:	
Common name	: Potassium Sulphate
Composition	: 0-70%
EC Name	: Potassium Sulphate
Chemical Formula	: K ₂ SO ₄
Molecular Weight	: 174.26 g/mol
Nutrient Content	: 42% K, 17%S
CAS Number	: 7778-80-5
EC Number	: 231-915-5
Substance B:	
Common name	: Kieserite
Composition	: <70%
EC Name	: Magnesium Sulphate
Chemical Formula	: MgSO4 . H2O
Molecular Weight	: 138.39 g/mol
Nutrient Content	: 15-15.7% Magnesium (Mg), 20% Sulphur (S)
CAS Number	: 14168-73-1 / 14567-64-7
EC Number	: 231-298-2 / 604-485-5

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures		
General information	: No special measures required.	
After inhalation	: Supply fresh air. Consult doctor in case of complaints.	
After skin contact	 Remove affected clothing. Immediately rinse with water (can use mild soap). If skin irritation continues, consult a doctor. 	
After eye contact	: Rinse opened eye for several minutes under running water (remove contact lenses if easily possible). Seek medical treatment.	
After swallowing	: Rinse out mouth. Make victim drink water (maximum of 2 drinking glasses). Do NOT induce vomiting. If symptoms persist consult doctor.	

4.2 Most important symptoms and effects, both acute and delayed

Effects

: The substance is mildly irritating to the eyes and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

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5.1 Suitable extinguishing medium		
Suitable extinguishing agents	:	Foam. Dry powder. Water spray. Sand.
Inappropriate extinguishing media	:	Do not use for safety reasons : CO2, halon
		Do not use a heavy water stream.
Notes	:	Use fire extinguishing methods suitable to surrounding conditions.

5.2 Specific hazards arise from chemical		
Warning	:	Formation of toxic gases is possible during heating or in case of fire.
Hazardous Combustion Products	:	In case of fire may be liberated: Sulphur oxides (SOx).
Fire hazard	:	Non-flammable substance
Explosion hazard	:	Not applicable
Reactivity	:	None

5.3 Special protective action for Fire-Fighters		
Special protective actions for fire- fighters	: 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 self- contained 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 precaut	tions, protective equipment, and emergency procedures
Percussions	 Prevent from dusting. Remove spilled product so that it would not get into contact with eyes and skin.
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.

¹ PPE – Personal precautions, protective equipment.

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 co	ontainment and cleaning up
Small Spill :	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Do not allow mixing of fertilizer and scobs and other combustible or organic materials. It can be used as a

fertilizer in agriculture or dispose it in an authorised way.

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. Do not allow mixing of fertilizer and scobs and other
combustible or organic materials. It can be used as a fertilizer in agriculture
or dispose it in an authorised way.

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 ha	ndling
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.
	: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
	: For precautions see section 2.2.
7.2 Conditions for safe sto	rage, including any incompatibilities
Storerooms and receptacles	: No special requirements.
One common storage facility	: a) store substance separately and label in a persistent and readable manne b) ensure that no mixing with other substance can occur
One common storage facility	
	b) ensure that no mixing with other substance can occur
	 b) ensure that no mixing with other substance can occur Sources of ignition. Direct sunlight. Avoid fuel (e.g., petroleum, lubricants etc.) and incompatible materials

Storage Class Reference: (BAUA, 2016) 7.3 Specific end use(s)	Prevent the stored material from the access of fire. : (TRGS 510): 10 - 13 Other liquids and solids: Non-Combustible Solids
	air humidity to the substance. : Keep the storerooms clean and tidy.
Room conditions	: Keep in dry, covered, and ventilated storerooms. Avoid useless acting of

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 Parame	ters			
	Compound	Cas Number	TWA ¹	STEL ²
OCHA	Potassium Sulphate	7778-80-5	10mg/l	Not Listed
OCHA	Kieserite	14567-64-7	Not Listed	Not Listed

¹ TWA – Long term exposure: Time Weighted Average (8-hour period) ² STEL – Short term exposure: Short term exposure limit (15 min period)

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

Routes of exposure	:	The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.
Inhalation risk	:	Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly, especially if powdered.
Effects of short-term exposure	:	Contact can irritate the skin and eyes
Effects of long-term or repeated exposure	:	Repeated exposure to ammonia may cause chronic irritation of the respiratory tract.
Reference: (ILO, n.d.)		

8.2 Appropriate engineering controls			
:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations, and safety showers are close to the workstation location.		
	See Section7.		
8.2 Individual protection measu	IRAS		

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).	
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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.	I
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	Not required under normal conditions of use. 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

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9.1 Properties		
Physical state	:	Solid ¹
Composition	:	Substance ²
Colour	:	White
Odour	:	Odourless
Melting point/freezing point	:	1067 °C
Boiling point or initial boiling point and boiling range	:	1689 °C
Flammability	:	Product is not flammable
Lower and upper explosion limit/flammability limit	:	Not determined
Flash point	:	Not applicable
Auto-ignition temperature	:	Not determined
Oxidizing Properties	:	Non oxidizer
Decomposition temperature	:	Not determined
рН	:	~7
Kinematic viscosity	:	Not applicable
Solubility	:	120 g/l water @ 25°C
Partition coefficient: n-octanol/water (log value)	:	Not applicable
Vapour pressure	:	Not applicable

Density and/or relative density	:	2.66 g/cm³ @ 20°C
Relative vapour density	:	Not determined
Bulk Density (Volumetric)	:	800 kg/m³
Particle characteristics	:	between 0.1 - 5mm
Molecular Formula	:	N/A
Molecular Weight	:	N/A

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)

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

SECTION 10: STABILITY AND REACTIVITY : None known, based on information available Reactivity Chemical stability : Stable under normal conditions Hazardous Reactions : None under normal processing Conditions to Avoid : Avoid contact with incompatible materials. Avoid heat, flame, and sparks. : Avoid fuel (e.g., petroleum, lubricants etc.) and incompatible materials **Incompatible Materials** (straw, wood, etc.) contamination. Strong oxidizing agents, aluminium, magnesium, sodium, calcium Hazardous Decomposition Products : Gives off irritating or toxic fumes (or gases) in a fire. Decomposes on heating. This produces sulphur oxides.

SECTION 11: TOXICOLOGY

11.1 Acute Toxicity	
Classification	: No Classification
Description	: Although Ammonium Sulphate is classified as Acute Tox. 4, the rest of the components are not classified. The amount in the final mixture too little to warrant a classification according to the GHS guidelines.

Substance A:

Method	Compound	Cas Number	LD50	Subject
Oral	Potassium sulphate	7778-80-5	>2000 mg/kg	Rat
			6600 mg/kg	Mouse
Inhalation	Potassium sulphate	7778-80-5	3.6 mg/m3	Rat
Dermal	Potassium sulphate	7778-80-5	>2000mg/kg	Rat

Substance B:

Method	Compound	Cas Number	Measure	Value	Subject
Oral	Magnesium Nitrate Anhydrous	7487-88-9	LD50 ¹	>2000 mg/kg bw ²	Rat
Inhalation	Magnesium Nitrate Anhydrous	7487-88-9		Not justified	
Dermal	Magnesium Nitrate Anhydrous	7487-88-9	LD50 ¹	>2000 mg/kg bw ²	Rat

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

² "bw" - body-weight/day

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

11.2 Skin corrosion/irritation	
Classification	: No classification
Description	: None of the component was classified as skin corrosive/irritant.
Subjects	: Humans, Rabbits
Reference: (ECHA, n.d.) & (Pubchem, s	earch, n.d.)

11.3 Serious eye d	lamage/irritation
Classification	: No Classification
Description	: None of the component was classified to cause eye damage/irritant.
Subjects	: Humans, Rabbits
Reference: (ECHA, n.d.)	& (EPA. New Zealand Government, n.d.) & (Pubchem, search, n.d.)

11.4 Respiratory or skin sensitisation

Classification	: No classification
Description	: None of the component was classified as skin corrosive/irritant.
Reference: (ECHA, n.d.) &	(Pubchem, search, n.d.)

11.5 Germ cell mutagenicity

- : No classification
- : None of the component was classified as skin corrosive/irritant.

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

11.6 Carcinogenicity

- : No classification
- : None of the component was classified as skin corrosive/irritant.
- : Rat and Mouse

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

11.7 Reproductive toxicity

No Classification

No data available

: None of the component was classified as skin corrosive/irritant.

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

11.8 STOT² - single exposure

² "STOT" - Specific target organ toxicity.

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

11.9 STOT² - repeated exposure

No data available

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

11.10 Aspiration hazard

No data available

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

11.11 Route of Exposure and potential effects

Swallowing	:	Abdominal pain. Diarrhoea. Vomiting.
Inhalation	:	Cough.
Eye exposure	:	Redness
Skin exposure	:	No symptoms

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

11.12 Long- and short-term effects

No data available

Reference: (ECHA, n.d.)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Classification

: Zinc Oxide is classified as (H400 + H410) Hazardous to the aquatic environment, long-term hazard, Category 1, Class 9

Of all the substances only Zinc Oxide was classified

² "STOT" - Specific target organ toxicity.

Aquatic Toxicity

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Substance A:

Compound	Cas Number	Organism	Species	Time	Measure	Value
Potassium sulphate	7778-80-5	Fish	Fathead minnow fish	96-h	LC50 ¹ 3	680 mg/L
Potassium sulphate	7778-80-5	Aquatic invertebrates	Daphnia magna	48-h	EC50	720 mg/L
Potassium sulphate	7778-80-5	Aquatic Algae and Cyanobacteria	freshwater algae	72-h	EC50	2700 mg/L
Potassium sulphate	7778-80-5	Microorganisms	-	3-h	EC50 ¹	100 mg/L

Substance B:

Compound	Cas Number	Organism	Species	Time	Measur e	Value
Magnesium Sulphate Anhydrous	7487-88-9	Fish	Fathead Minnow	96-h	LC50 ¹	680 mg/L
Magnesium Sulphate Anhydrous	7487-88-9	Aquatic invertebrates	Daphnia Magna	48-h	EC50	720 mg/L
Magnesium Sulphate Anhydrous	7487-88-9	Aquatic Algae and Cyanobacteria	Chlorella Vulgaris	10-d	EC50	2700 mg/L
Magnesium Sulphate Anhydrous	7487-88-9	Micro-organisms	Activated sludge of a predominantly domestic sewage	3-h	EC50	>100 mg/L

Terrestrial Toxicity

No data available

¹ "LC50 /EC50" - (Median Lethal Concentration/Median Effective Concentration) They are the concentrations at which 50% mortality or inhibition of a 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.

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

12.2 Persistence and degradability				
Stability	: Non of the components hydrolyse nor is there evidence for photodegradation.			
Biodegradation	Readily biodegradation study does not need to be conducted since the substance is metal/inorganic.			
Reference: (ECHA, n.d.)				

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12.3 Bioaccumulate potential	
Description	: The study does not need to be conducted as the substance as an inorganic salt has a low potential for adsorption.
	Due to homeostatic control mechanisms, bioaccumulation is not relevant to essential elements in general and to zinc in particular.
Reference: (ECHA, n.d.)	
12.4 Mobility in soil	
Adsorption	 Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution. Such a substance has a low potential for adsorption.
	For metals, adsorption/desorption translates in the distribution of the metals between the different fractions of the environmental compartment, e.g. the water (dissolved fraction, fraction bound to suspended matter), soil (fraction bound or complexed to the soil particles, fraction in the soil pare

(fraction bound or complexed to the soil particles, fraction in the soil pore water,...).This distribution between the different compartments is translated in the partition coefficients between these different fractions. Study records on partition coefficients are given under 5.6.

Volatilization Reference: (ECHA, n.d.)

12.5 Other adverse effects

Classification

: No data available

No data availible

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	:	No classification
UN proper shipping name	:	No classification
Transport hazard class(es)	:	No classification
Label	:	No classification
Packing group	:	No classification
Environmentally hazardous	:	No classification

Special precautions:	:	ADR/RID	-	Not classified
		IMDG ²	-	Not classified
		IATA ³	-	Not classified
Transport in Bulk according to IMO instructions	:	Not specifi	ed	

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

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)

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/	
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
ECx	:	It is the concentrations at which x % (10% for EC10) effect was observed or derived statistically when compared to the control group
LDO		Lethal Dose 0, represents the dose at which no individuals are expected to die.
LCO	•	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

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

(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/

(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?

(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/*

(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/

(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.)

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)

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.