	H & S MANAGEMENT SYSTEM CLAUSE 8.1.1	Form No.	FOR041
	SAFETY DATA SHEET NEUTRABLOCKS	Issue Date	2001/07/23
		Revision Date	2023/10/22
		Next Revision:	October 2028

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**  
**GHS PRODUCT IDENTIFIER**  
**NEUTRABLOCKS**

**OTHER MEANS OF IDENTIFICATION**

<b>CAS:</b>	Mixture not listed in registry
<b>EC:</b>	Mixture not listed in registry
<b>RTECS:</b>	Mixture not listed in registry
<b>ICSC:</b>	Mixture not listed in registry
<b>GESTIS DATABASE:</b>	Mixture not listed in registry
<b>CHEMICAL FAMILY:</b>	Mixture not identified
<b>SYNONYMS:</b>	None
<b>PROPER SHIPPING NAME:</b>	NOT REGULATED FOR TRANSPORT
<b>CHEMICAL FORMULA:</b>	Mixture not identified
<b>PRODUCT STOCK CODE/S:</b>	CHQ001(22Kg), SUP001(22Kg), SUT001 (22Kg)
<b>SDS LINK:</b>	<a href="http://aquatradesa.ddns.net/owncloud/index.php/s/WR4UMF9wcsZViRC">http://aquatradesa.ddns.net/owncloud/index.php/s/WR4UMF9wcsZViRC</a>

RECOMMENDED USE	RESTRICTIONS ON USE
<b>NEUTRABLOCKS</b> are slow dissolving carbonate-based blocks which are used for neutralising acid in water or slightly elevating the pH of neutral water.	Not for end consumer use. Not for food, drug, or household use.

**SUPPLIER'S DETAILS**

**AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD**

[22 Grader Rd, Spartan](#)

Gauteng, South Africa

Tel: +27 11 394 0752

[info@aquatradesa.co.za](mailto:info@aquatradesa.co.za)

[www.aquatradesa.co.za](http://www.aquatradesa.co.za)

PO Box 357

Isando, 1600

**SDS Enquiries only**

[sheq@aquatradesa.co.za](mailto:sheq@aquatradesa.co.za)

Tel: +27 87 654 3326

EMERGENCY PHONE NUMBER		
NAME	TEL	HOURS AVAILABLE
<b>SPECIALIST</b>		
S. Biondi	+27 68 237 2033	Mon. – Fri. 05:00 –20:00 GMT
H. van Niekerk	+27 82 410 5540	Mon. – Fri. 05:00 –20:00 GMT
Spilltech	+27 86 100 0366	24/7
<b>OPERATOR</b>		
SHEQ Coordinator	+27 76 590 9559 +27 87 654 3326	24/7 Mon. – Fri. 06:00 –18:00 GMT

**SECTION 2 — HAZARDS IDENTIFICATION**

**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Skin Corrosion/Irritation (Category 2), H315

Serious Eye damage/Irritation (Category 1), H318

Specific Target Organ Toxicity – Single Exposure

(Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

## GHS LABEL ELEMENTS



**SIGNAL WORD:** DANGER

### GHS HAZARD CODES

Causes skin irritation.  
 Causes serious eye damage.

May cause respiratory irritation.

### GHS PRECAUTIONARY CODES

Avoid breathing dust.  
 Wash exposed areas thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 IF ON SKIN: Wash with plenty of water.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a doctor/first aider.

Specific treatment (see IF ON SKIN, IF INHALED, IF IN EYES on this label).  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents and container in accordance with local, regional, national, international regulations to licenced hazardous waste manager.

### OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS	EC	MIN %	MAX %	HAZARD NOTES
Dolomite (CaMg (CO <sub>3</sub> ) <sub>2</sub> ), calcined	83897-84-1	281-192-5		> 60	H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation.
Sodium Carbonate	497-19-8	207-838-8		< 30	H319: Causes serious eye irritation.

## SECTION 4 — FIRST-AID MEASURES

### DESCRIPTION OF NECESSARY FIRST AID MEASURES

<b>IF INHALED</b>	Move source of dust or move person to fresh air. Obtain medical attention immediately.
<b>IF IN CONTACT WITH EYES</b>	Rinse immediately with plenty of water and seek medical advice.
<b>IF IN CONTACT WITH SKIN</b>	Carefully and gently brush the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water. Remove contaminated clothing. If skin irritation persists, call a physician.
<b>IF INGESTED</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.
<b>GENERAL ADVICE</b>	No known delayed effects. Consult a physician for all exposures except for minor instances.

## MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE and DELAYED

IF INHALED	The substance is not acutely toxic via the oral, dermal, or inhalation route. The substance is classified as irritating to skin and the respiratory tract and entails a risk of serious damage to the eye. There is no concern for adverse systemic effects because local effects (pH-effect) are the major health hazard.
IF IN CONTACT WITH EYES	
IF IN CONTACT WITH SKIN	
IF INGESTED	

## INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED, IF NECESSARY

Seek medical attention if any irritation persists after contact, swallowing or inhalation of product after initial first aid measures.

## SECTION 5 — FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	The product is not combustible. Use a dry powder, foam, or CO2 fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
EXTINGUISHING MEDIA NOT SUITABLE	None.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	None.
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS incl. PPE	Avoid dust formation. As in any fire, wear self-contained breathing apparatus pressure-demand, SANS 50137:2011 (approved or equivalent) and full protective gear.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PPE & EMERGENCY PROCEDURES	Ensure adequate ventilation. Keep dust levels to a minimum. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8). Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).
ENVIRONMENTAL PRECAUTIONS	Contain the spillage. Keep the material dry if possible. Cover area, if possible, to avoid unnecessary dust hazard. Avoid uncontrolled spills to watercourses and drains (pH rising). Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.
METHODS & MATERIALS FOR CONTAINMENT & CLEANING UP	Avoid dust formation. Keep the material dry if possible. Pick up the product mechanically in a dry way. Use vacuum suction unit, or shovel into bags. Dispose as hazardous waste in suitable labelled containers.

## SECTION 7 — HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	<p><b>Protective Measures:</b> Avoid contact with skin and eyes. For personal protection see section 8. Keep dust levels to a minimum. Minimise dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks.</p> <p><b>Advice on General Occupational Hygiene:</b> Avoid inhalation, ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e., regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.</p>
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<b>CONDITIONS FOR SAFE STORAGE</b>	<p>Store in a dry place. Minimise exposure to air and moisture to avoid degradation. Keep out of the reach of children. DO NOT use aluminium for transport and storage if there is a risk of contact with water.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="4" style="text-align: center;">UN Packaging Codes</th> </tr> <tr> <th style="width: 15%;">Stock Code</th> <th style="width: 15%;">Pack Size</th> <th style="width: 40%;">Make &amp; Category</th> <th style="width: 30%;">UN Code</th> </tr> </thead> <tbody> <tr> <td>CHQ001</td> <td rowspan="3" style="text-align: center;">22 Kg</td> <td rowspan="3" style="text-align: center;">Bags. Plastics film.</td> <td rowspan="3" style="text-align: center;">UN5H4/Y26/S/*</td> </tr> <tr> <td>SUP001</td> </tr> <tr> <td>SUT001</td> </tr> </tbody> </table>	UN Packaging Codes				Stock Code	Pack Size	Make & Category	UN Code	CHQ001	22 Kg	Bags. Plastics film.	UN5H4/Y26/S/*	SUP001	SUT001
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<b>INCOMPATIBILITIES</b>	<p><b>Incompatible Products:</b> acids, significant quantities of paper, straw, and nitro compounds.</p> <p><b>Incompatible Conditions:</b> High humidity. Rain.</p>														
<b>SANS 10263-0 WAREHOUSING</b>	No provisions.														






**SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION CONTROL PARAMETERS**

<b>OCCUPATIONAL EXPOSURE LIMITS (OEL)</b>	<p><b>INTERNATIONAL:</b>  <b>Dolomite (CaMg (CO<sub>3</sub>)<sub>2</sub>), calcined   83897-84-1:</b>  1 mg/m<sup>3</sup> (8-h TWA, respirable dust); STEL = 4 mg/m<sup>3</sup> (15 min); proposal based on read-across from CaO and Ca (OH)<sub>2</sub> according to SCOEL/SUM/137 February 20083.</p>																																																																												
<b>ADDITIONAL EXPOSURE LIMITS UNDER THE CONDITIONS OF USE</b>	Contains no substances with biological exposure indices.																																																																												
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## APPROPRIATE ENGINEERING CONTROLS

To control potential exposures, generation of dust should be avoided. Further, appropriate protective equipment is recommended. Eye protection equipment (e.g., goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

## INDIVIDUAL PROTECTION MEASURES

<b>EYE PROTECTION</b>		<p>Tightly fitting goggles with side shields, or wide vision full goggles. Use equipment for eye protection tested and approved under appropriate government standards such as SANS 50166:2018. Contact lenses should not be worn as they may contribute to severe eye injury.</p>
<b>FACE PROTECTION</b>		<p>Not required. If the face is at risk a protective shield must also be worn tested and approved under appropriate government standards such as SANS 1400:2010.</p>
<b>HAND PROTECTION</b>		<p>Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care. Skin protection cremes do not protect sufficiently against the substance. Textile or leather gloves are completely unsuitable. Currently there is no information available regarding suitable glove materials. Ask the manufacturer for suitable materials.</p> <p>Suggested material: Neoprene, Nitrile, Rubber or PVC Gloves</p> <p>If used in solution, or mixed with other substances, and under conditions which differ from SANS 416:2021 or SANS 1228:2012, contact the supplier of the CE approved gloves.</p>
<b>BODY PROTECTION</b>		<p>Clothing fully covering skin, full length trousers, long sleeved overalls, with close fittings at openings. Footwear resistant to caustics and avoiding dust penetration. Complete suit protecting against chemicals tested and approved under appropriate government standards such as SANS 54325:2019. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>
<b>RESPIRATORY PROTECTION</b>		<p>Where risk assessment shows air-purifying respirators are appropriate use a moulded disposable P3 mask, as a backup to engineering controls. If the respirator is the sole means of protection, use an elastomeric half-face respirator. Use respirators and components tested and approved under appropriate government standards such as SANS 50136:1998, SANS 50137:2011, SANS 50140:1998.</p> <p>Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacture.</p>

**NOTE:** The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Recommendations above is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Thermal hazards:** The substance does not represent a thermal hazard; thus, special consideration is not required.

**Environmental exposure controls** All ventilation systems should be filtered before discharge to atmosphere. Contain the spillage. Keep the material dry if possible. Cover area, if possible, to avoid unnecessary dust hazard. Avoid uncontrolled spills to watercourses and drains (pH rising). Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE (PHYSICAL STATE, COLOUR ETC):</b>	White/Off-White/Beige/Grey/Light Brown Solid Brick Like Blocks
<b>ODOUR:</b>	Odourless
<b>ODOUR THRESHOLD:</b>	No additional data available.
<b>pH:</b>	No additional data available
<b>MELTING/FREEZING POINT:</b>	No additional data available.
<b>INITIAL BOILING POINT AND BOILING RANGE:</b>	No additional data available.
<b>FLASH POINT:</b>	Do not flash.
<b>EVAPORATION RATE:</b>	No additional data available.
<b>FLAMMABILITY (SOLID, GAS):</b>	Not flammable.
<b>UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b>	Not explosive
<b>VAPOUR PRESSURE:</b>	No additional data available.
<b>VAPOUR DENSITY:</b>	No additional data available.
<b>BULK DENSITY:</b>	No additional data available
<b>SOLUBILITY(IES):</b>	Miscible in water
<b>PARTITION COEFFICIENT: N-OCTANOL/WATER:</b>	No additional data available.
<b>AUTO-IGNITION TEMPERATURE:</b>	No additional data available.
<b>DECOMPOSITION TEMPERATURE:</b>	No additional data available.
<b>VISCOSITY:</b>	No additional data available.
<b>OXIDIZING PROPERTIES:</b>	No additional data available.

**NOTE:** The physical data presented above are typical values and should not be construed as a specification

## SECTION 10 — STABILITY AND REACTIVITY

<b>REACTIVITY</b>	The product absorbs moisture and carbon dioxide from air.
<b>CHEMICAL STABILTY</b>	Stable under normal conditions of storage, handling, and transport.
<b>POSSIBILTY of HAZARDOUS REACTIONS</b>	The product reacts exothermically with acids. Reacts with water and generates heat. This may cause risk to flammable material.
<b>CONDITIONS TO AVOID</b>	High humidity. Rain.
<b>INCOMPATIBLE MATERIALS</b>	Acids, significant quantities of paper, straw, and nitro compounds.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Thermal decomposition produces calcium oxide (CaO) and carbon dioxide (CO <sub>2</sub> ).

## SECTION 11 — TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL (HEALTH) EFFECTS

<b>ACUTE TOXICITY</b>	Not classified as per GHS guidelines.
<b>SKIN CORROSION/IRRITATION</b>	Causes skin irritation.
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Causes serious eye damage.
<b>RESPIRATORY OR SKIN SENSITIZATION</b>	Not classified as per GHS guidelines.
<b>GERM CELL MUTAGENICITY</b>	Not classified as per GHS guidelines.

<b>CARCINOGENICITY</b>	Not classified as per GHS guidelines.
<b>REPRODUCTIVE TOXICITY</b>	Not classified as per GHS guidelines.
<b>SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE</b>	May cause respiratory irritation.
<b>SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE</b>	Not classified as per GHS guidelines.
<b>ASPIRATION HAZARD</b>	Not classified as per GHS guidelines.

#### LIKELY SOURCES OF EXPOSURE

<b>INHALATION</b>	<b>EYES</b>	<b>SKIN</b>	<b>INGESTION</b>
Rare	Unlikely	Likely	Rare
Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure in case of unhygienic practices.

#### SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

**Symptoms/effects after inhalation;** Exposure to high concentrations: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

**Symptoms/effects after skin contact:** Irritation of the skin.

**Symptoms/effects after eye contact:** Causes serious eye damage. Tearing, Blurring. Tearing.

**Symptoms/effects after ingestion:** None known.

#### DELAYED/IMMEDIATE/CHRONIC EFFECTS FROM LONG/SHORT TERM EXPOSURE

On continuous/repeated exposure/contact: Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract.

#### NUMERICAL MEASURES OF TOXICITY (SUCH AS ATE)

<b>TEST</b>	<b>ROUTE</b>	<b>SPECIES</b>	<b>VALUE</b>	<b>EFFECTS</b>
LD50	Oral	Rat	> 5 000mg/kg bw	Refer above section 11.1
LC50	Inhalation	No data available		
LD50	Dermal	No data available		

#### INTERACTIVE EFFECTS

No additional information available.

#### WHERE SPECIFIC CHEMICAL DATA IS NOT AVAILABLE

No additional information available.

#### MIXTURES

No additional information available.

#### MIXTURES VS INGREDIENTS INFORMATION

No additional information available.

#### OTHER INFORMATION

No additional information available.

## SECTION 12 — ECOLOGICAL INFORMATION TOXICITY

TEST	SPECIES	VALUE
48Hr EC50	Fish	> 100 mg/L
48Hr EC50	Crustacea	> 100 mg/L
48Hr EC50	Algea	> 100 mg/L
48Hr EC50	Micro-Organism	> 100 mg/L

## PERSISTANCE AND DEGRADABILITY

OECD Test Guideline 301 (A-F)	
BOD <sub>5</sub>	No additional data available.
COD	No additional data available.

## BIOACCUMULATIVE POTENTIAL

PARTITION COEFFICIENT: N-OCTANOL/WATER	
LOG-K <sub>ow</sub>	No additional data available.
BIOCONCENTRATION FACTOR	
BCF	No additional data available.

Ecological injuries are not known or expected under normal use.

## MOBILITY IN SOIL

No additional data available.

## OTHER ADVERSE EFFECTS

DO NOT discharge effluent containing this product into bodies of water unless in accordance with international, national and/or provincial law.

## SECTION 13 — DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL RECOMMENDATION

Dispose of waste and container in accordance with local and/or national regulations. Hazardous waste shall not be mixed with other waste. Different types of hazardous waste shall not be mixed 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. Recycle/reuse. Remove for physico-chemical/biological treatment. Avoid discharge into drains or the environment.

### ECOLOGY – WASTE MATERIAL

Avoid release to the environment.

### EMPTY CONTAINER

The used packaging is only meant for packing this product; it should not be reused for other purposes. Consider recycling.

## SECTION 14 — TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION	ADR/RID	ADN(R)	IMDG	ICAO/IATA
UN NUMBER	Not Regulated			

## SPECIAL INSTRUCTIONS FOR USER

None.

## TRANSPORT IN BULK ACCORDING TO ANNEX II of MARPOL 73/78 and THE IBC CODE

Not applicable.

### SECTION 15 — REGULATORY INFORMATION

#### SA NATIONAL LEGISLATION

Hazardous Substances Act 15 of 1973 and Regulations.

Occupational Health and Safety Act 85 of 1993 and Regulations.

National Environmental Management Act 107 of 1998 and Regulations.

#### SA NATIONAL STANDARDS

SANS 10228: 2006: Identification and Classification of Dangerous Goods for Transport by Road and Rail.

SANS 10231: 2018: Transport of Dangerous Goods - Operational Requirements for Road Vehicles.

SANS 10234: 2008: Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

SANS 11014: 2010: Safety Data Sheets for Chemical Products.

#### REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

#### Seveso III: Directive 2012/18/EU

Listed in Regulation: Not applicable.

#### Chemical safety assessment

Not assessed.

### SECTION 16 — OTHER INFORMATION

#### FULL TEXT OF H & P - STATEMENTS REFERRED TO UNDER SECTION 2


HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation.	P261: Avoid breathing dust. P264: Wash exposed areas thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a doctor/first aider. P321: Specific treatment (see IF ON SKIN, IF INHALED, IF IN EYES on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.

P501: Dispose of contents and container in accordance with local, regional, national, international regulations to licenced hazardous waste manager

**LABELLING SANS 10234:2008**

**SIGNAL WORD: DANGER**

**PICTOGRAMS**

PHYSICAL & HEALTH HAZARD	ENVIRONMENTAL HAZARD	TRANSPORT
GHS05: Corrosive GHS07: Health Hazard	N/A	N/A
		

**LEGEND TO ABBREVIATIONS & ACRONYMS**

BEK: Organic gases and vapours (BP>65°C);  
Inorganic gases and vapours; Sulphur dioxide and other acid gases and vapours; Ammonia and organic ammonia derivatives  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
BCF: Bioconcentration Factor  
BOD5: Biological Oxygen Demand in 5  
CAS: Chemical Abstracts Service  
CEN: European Committee for Standardization  
COD: Chemical Oxygen Demand  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level  
EC: European Commission  
EC50: Half Maximal Effective Concentration  
EMS: Emergency Medical Services  
ERG: Emergency Response Guidelines  
EU: European Union  
GHS: Globally Harmonized System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
ICSC: International Chemical Safety Cards

IMDG: International Maritime Dangerous Goods  
LC50: Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)  
LD50: Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)  
LOG-KOW: Logarithm - Octanol - Water Partition Coefficient  
NIOSH: National Institute for Occupational Safety and Health (US CDC)  
NTP: National Toxicology Program  
OEL: Occupational Exposure Limit  
OSHA: Occupational Safety and Health Administration  
P, B, L & O: Packaging, Bulk Transport, Loading Operation & Transport Operation  
PBT: Persistent, Bio accumulative, and Toxic  
PNEC: Predicted No-Effect Concentration  
PPE: Personal Protection Equipment  
RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail  
RTECS: Registry of Toxic Effects of Chemical Substances  
SANS: South African National Standard  
vPvB: Very Persistent Very Bio Accumulative

**KEY LITERATURE REFERENCES AND SOURCES**

REFERENCE	SOURCE
GESTIS DATABASE	<a href="https://www.dguv.de/gestis">GESTIS Substance Database (dguv.de)</a>
EUROPEAN CHEMICALS AGENCY	<a href="https://echa.europa.eu">Registration Dossier - ECHA (europa.eu)</a> <a href="https://echa.europa.eu">Registration Dossier - ECHA (europa.eu)</a>
PUBCHEM	<a href="https://pubchem.ncbi.nlm.nih.gov/compound/Sodium-carbonate">SID 472231292 - PubChem (nih.gov)</a> <a href="https://pubchem.ncbi.nlm.nih.gov/compound/Sodium-carbonate">Sodium Carbonate   Na2CO3   CID 10340 - PubChem (nih.gov)</a>
CHRIS Guide	Not Listed
ILO ICSC	<a href="https://www.ilo.org/public/libdoc/ichem/199001135.pdf">ICSC 1135 - SODIUM CARBONATE (ANHYDROUS) (ilo.org)</a>
RTK Hazardous Substance Fact Sheet	Not Listed
NIOSH POCKET GUIDE	Not Listed

<b>NIOSH RTECS</b>	Not Listed
<b>CAMEO CHEMICALS</b>	Not Listed
<b>USA EPA COMPTOX</b>	<a href="#">Carbonic acid sodium salt (1:2) - Chemical Details (epa.gov)</a>
<b>ECOMOLE REGULATORY WATCHDOG</b>	<a href="#">Watchdog   sodium carbonate (ecomole.com)</a>

#### TRAINING ADVICE

Ensure SDS is always available to users. Provide adequate information, instruction, and training for operators.

**COMPILED BY:** Aquatrade Water Treatment Chemicals (Pty) Ltd, R. van Rooyen, SHEQ Coordinator.

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22 October 2023	1	1	23 July 2001
23 July 2001	0	0	Original (MSDS)

#### IMPORTANT MANUFACTURER/SUPPLIER DISCLAIMER:

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