



FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg)

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8
Issue date: 2/13/2024 Revision date: 2/13/2024 Supersedes: 2/13/2024 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

1.1. GHS product identifier

Product form	: Mixture
Trade name	: FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg)
Type of product	: Fumigant
CAS-No.	: 20859-73-8
Product group	: End product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : A tablet fumigant insecticide for the control of pests in stored grain, seed, tobacco and storage premises. Can also be used for the control of porcupines, moles, gerbils and other rodents as indicated.

Restricted use: **This remedy is restricted due to acute toxicity. This remedy may only be sold to and used by a registered pest control operator, or by someone under the supervision of a registered pest control operator, and only for those uses covered by the pest control operator's scope of registration, and only as directed on the label.**

1.4. Supplier's details

Supplier

Farm-Ag International (Pty) Ltd
Old Mill Industrial Park
61, Marshall Drive
P.O. Box 1523
4300 Mount Edgecombe – Durban KwaZulu Natal
South Africa
T 031 003 3486

1.5. Emergency phone number

Emergency number : 24 Hr Emergency Number:
In case of Poisoning:
Poison Information Helpline : 0861 555 777

In case of Spillage:
HAZMAT:0800 147 112

SECTION 2: Hazard identification

2.1. GHS classification of the substance/mixture and any national or regional information

Classification according to the United Nations GHS

Substances and Mixtures which, in contact with water, emit flammable gases, Category 1	H260
Acute toxicity (oral), Category 2	H300
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhalation:dust,mist) Category 1	H330
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401

Full text of H-statements: see section 16

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Adverse physicochemical, human health and environmental effects : Causes damage to organs,Fatal if inhaled,Fatal if swallowed,Toxic in contact with skin,Harmful to aquatic life

2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)

: Danger

Hazardous ingredients

: aluminium phosphide, ammonium carbonate

Hazard statements (GHS ZA)

: H260 - In contact with water releases flammable gases which may ignite spontaneously
H300+H330 - Fatal if swallowed or if inhaled
H311 - Toxic in contact with skin
H401 - Toxic to aquatic life

Precautionary statements (GHS ZA)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P223 - Do not allow contact with water.
P231+P232 - Handle and store contents under inert gas. Protect from moisture.
P260 - Do not breathe dusts or mists.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 - In case of inadequate ventilation wear supplied-Air Respirator (SAR).
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P302+P335+P334 - IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - Call a POISON CENTER if you feel unwell.
P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).
P321 - Specific treatment (see on this label).
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use D-powder, dry sand, carbon dioxide (CO₂) to extinguish.
P402+P404 - Store in a dry place. Store in a closed container.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
aluminium phosphide	CAS-No.: 20859-73-8	≥ 55 – < 60	Water-react. 1, H260 Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400
graphite	CAS-No.: 7782-42-5	≥ 15 – < 20	Acute Tox. 5 (Oral), H303 Aquatic Acute Not classified
ammonium carbonate	CAS-No.: 10361-29-2	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Aquatic Acute 3, H402
paraffin, wax	CAS-No.: 8002-74-2	≥ 1 – < 5	Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: In case of headache, dizziness, feeling of constriction, difficult breathing and nausea immediately leave the danger zone and seek fresh air; consult a physician; inhale products for acute treatment following exposition of smoke gas (eg a beclometasone (Ventolair®) spray, a dexamethasone (Auxilison®) spray).
First-aid measures after skin contact	: Wash skin with plenty of water. Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.

4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after ingestion	: Fatal if swallowed.
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4.3. Indication of immediate medical attention and special treatment needed, if necessary

Have methyl prednisolon (application by physician) and products for acute treatment following exposition of smoke gas (eg a beclometasone (Ventolair®) spray, a dexamethasone (Auxilison®) spray) available.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry powder. Sand. Carbon dioxide.
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5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Special hazards from the substance itself, its combustion products or from its vapours: in case of fires hazardous combustion gases are formed: caustic phosphoric acid aerosols (phosphoric pentoxide).
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5.3. Special protective actions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Personal protection (Emergency response)	: Wear respiratory protection, Wear protective gloves, Wear protective clothing, Wear eye protection, Wear a face shield

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe gas, dust. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Occupational spill:
Keep out unprotected persons and animals. Do not touch spilled material; stop leak if you can do it without risk.
Earth all equipment used when handling the product. Do not touch or walk through spilled material. Stop leak if possible without risk. Avoid runoff of product into sewers, water systems, basements or confined areas as it may cause fire/explosion. A vapour-suppressing foam could be used to reduce vapours. Thoroughly wash body areas, which come into contact with the product.
For spills: Use clean, non-sparking tools to collect absorbed material. Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations. Open burning or dumping of this material is prohibited.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe gas, dust. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage area : Store in a dry area. Store out of reach of unauthorised persons, children and animals.

Information on mixed storage : Food supplies. KEEP SUBSTANCE AWAY FROM: Water supplies.

Maximum storage period : 2 year

Storage temperature : > 32 °C

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

paraffin, wax (8002-74-2)

South Africa - Occupational Exposure Limits (Airborne Pollutants)

Local name	Paraffin wax
OEL TWA	2 mg/m ³ fume
OEL STEL	6 mg/m ³ fume
Regulatory reference	Government Notice No. R 904

graphite (7782-42-5)

South Africa - Occupational Exposure Limits (Airborne Pollutants)

Local name	Graphite, synthetic
OEL TWA	5 mg/m ³ respirable particulate
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: No data available
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: > 62 °C Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available

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Flammability	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Physical state	: Solid
Appearance	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Fatal if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Fatal if inhaled.

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ATE ZA (oral)	15.242 mg/kg bodyweight
ATE ZA (Dermal)	508.222 mg/kg bodyweight
ATE ZA (dust, mist)	0.015 mg/l/4h

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FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg) (20859-73-8)

Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 35.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 43% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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aluminium phosphide (20859-73-8)

LD50 oral rat	8.7 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	460 – 960 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	0.015 mg/l/4h

ammonium carbonate (10361-29-2)

LD50 oral rat	1800 – 2150 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

Urea (57-13-6)

LD50 oral rat	14300 – 15000 mg/kg bodyweight
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paraffin, wax (8002-74-2)

LD50 oral rat	> 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read-across, Oral, 7 day(s))
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))

graphite (7782-42-5)

LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat	> 2000 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	Not applicable
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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aluminium phosphide (20859-73-8)	
LC50 - Fish [1]	9.65 mg/l Rainbow Trout
LC50 - Fish [2]	48 mg/l zebra fish
Additional data	Bees: (LD50 µg/bee) 0.24 (oral) (48h). Worms LC50 (14d) 664 mg/kg soil.
ammonium carbonate (10361-29-2)	
LC50 - Fish [1]	98.3 mg/l (96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	252.92 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Urea (57-13-6)	
LC50 - Fish [1]	> 6810 mg/l (96 h, Leuciscus idus, Experimental value, Lethal)
EC50 - Crustacea [1]	> 10000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
EC50 72h - Algae [2]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)

12.2. Persistence and degradability

FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg) (20859-73-8)	
Persistence and degradability	No additional information available
aluminium phosphide (20859-73-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
ammonium carbonate (10361-29-2)	
Persistence and degradability	Biodegradability in water: no data available.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Urea (57-13-6)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
ThOD	0.27 g O ₂ /g substance
paraffin, wax (8002-74-2)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable

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graphite (7782-42-5)

ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg) (20859-73-8)

Bioaccumulative potential	No additional information available
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aluminium phosphide (20859-73-8)

Bioaccumulative potential	Bioaccumulation: not applicable.
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ammonium carbonate (10361-29-2)

Bioaccumulative potential	Not bioaccumulative.
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Urea (57-13-6)

Partition coefficient n-octanol/water (Log Kow)	< -1.73 (Experimental value, EU Method A.8: Partition Coefficient, 22 °C)
Bioaccumulative potential	Not bioaccumulative.

Aluminium monostearate (7047-84-9)

Partition coefficient n-octanol/water (Log Kow)	7.48 Source: Episuite
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paraffin, wax (8002-74-2)

Partition coefficient n-octanol/water (Log Kow)	> 6 (Calculated)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

graphite (7782-42-5)

Bioaccumulative potential	Not bioaccumulative.
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12.4. Mobility in soil

FarmAg Aluminium Phosphide (Aluminium phosphide 560 g/kg) (20859-73-8)

Mobility in soil	No additional information available
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aluminium phosphide (20859-73-8)

Surface tension	No data available in the literature
Ecology - soil	No (test) data on mobility of the substance available.

ammonium carbonate (10361-29-2)

Ecology - soil	No (test) data on mobility of the substance available.
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Urea (57-13-6)

Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-1.43 – -1.19 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

paraffin, wax (8002-74-2)

Surface tension	31 mN/m (54 °C)
Ecology - soil	No (test) data on mobility of the substance available.

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

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SECTION 13: Disposal Considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1397	1397	1397
14.2. UN Proper Shipping Name		
ALUMINIUM PHOSPHIDE	ALUMINIUM PHOSPHIDE	Aluminium phosphide
14.3. Transport hazard class(es)		
4.3 (6.1)	4.3 (6.1)	4.3 (6.1)
14.4. Packing group, if applicable		
I	I	I
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

SANS

Limited quantities (SANS) : 0
 Limited quantities (SANS) : 0
 Packagings, large packagings and IBCs Packing instructions (SANS) : P403

IMDG

Limited quantities (IMDG) : 0
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P403
 Special packing provisions (IMDG) : PP31
 EmS-No. (Fire) : F-G - FIRE SCHEDULE Golf - WATER-REACTIVE SUBSTANCES
 EmS-No. (Spillage) : S-N - SPILLAGE SCHEDULE November - SUBSTANCES REACTING VIGOROUSLY WITH WATER
 Stowage category (IMDG) : E
 Properties and observations (IMDG) : Crystals or powder. Reacts with acids or decomposes slowly in contact with water or damp air, evolving phosphine, a spontaneously flammable and highly toxic gas. Reacts violently with oxidizing substances. Toxic if swallowed, by skin contact or by inhalation.

IATA

PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : Forbidden
 PCA max net quantity (IATA) : Forbidden
 CAO packing instructions (IATA) : 487

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CAO max net quantity (IATA) : 15kg
ERG code (IATA) : 4PW

14.7. Transport in bulk according to IMO instructions

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : 13/02/2024
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Supersedes : 13/02/2024

Full text of H-statements:	
H260	In contact with water releases flammable gases which may ignite spontaneously
H300	Fatal if swallowed
H302	Harmful if swallowed
H303	May be harmful if swallowed
H311	Toxic in contact with skin
H313	May be harmful in contact with skin
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life

Safety Data Sheet (SDS), South Africa (HCA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.