

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: Bromoxynil 225 EC (bromoxynil 225 g/l)
Type of product	: Herbicide
CAS-No.	: 1689-99-2
Product group	: End product

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

Use of the substance/mixture	: Emulsifiable concentrate. A herbicide for the selective control of certain broadleaf weeds in wheat, barley, oats, Lucerne, maize and grain sorghum.
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1.3. 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

1.4. Emergency telephone 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: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 4	H312
Skin corrosion/irritation, Category 3	H316
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H-statements: see section 16	

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)

: Danger

Bromoxynil 225 EC (bromoxynil 225 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Hazardous ingredients	: Bromoxynil TC, Polyoxyethylene phenyl ether, Calcium dodecylbenzenesulfonate
Hazard statements (GHS ZA)	: H226 - Flammable liquid and vapour. H301 - Toxic if swallowed. H312 - Harmful in contact with skin. H316 - Causes mild skin irritation H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H361 - Suspected of damaging fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects.
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 label before use. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P261 - Avoid breathing vapours, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P310 - Immediately call a POISON CENTER or doctor. P312 - Call a POISON CENTER or doctor if you feel unwell. P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use D-powder, carbon dioxide (CO2), alcohol resistant foam to extinguish. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Flammable liquid and vapour, Suspected of damaging fertility or the unborn child, Toxic if swallowed, Harmful in contact with skin, Causes mild skin irritation, May cause an allergic skin reaction, Causes serious eye damage, Very toxic to aquatic life with long lasting effects.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Bromoxynil 225 EC (bromoxynil 225 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Bromoxynil TC	CAS-No.: 1689-99-2	$\geq 30 - < 35$	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Polyoxyethylene phenyl ether	CAS-No.: 9004-78-8	$\geq 1 - < 5$	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Calcium dodecylbenzenesulfonate	CAS-No.: 26264-06-2	$\geq 1 - < 5$	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: The airway should be kept clear to maintain respiration, particularly when the patient is unconscious or has vomited. The mouth and pharynx should be cleared and dentures removed. The jaw should be supported and the patient placed in a face down position with the head down and turned to one side, with the tongue drawn forward. First aid should be performed by qualified medical personnel and should include, if necessary, mouth-to-nose respiration and cardiac massage.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Remove contaminated clothing, shoes and leather goods immediately. Gently wipe of excess chemical. Wash skin gently and thoroughly with clean water and non-abrasive soap or mild detergent until no evidence of chemical remains (approximately 15 to 20 minutes). Persons who become sensitised may require specialised medical management with anti-inflammatory agents. Obtain medical advice immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Do not induce vomiting, due to aromatic solvent present in product. Obtain medical advice immediately and make the container, or label or this Data Sheet available. Never give anything by mouth to a semi-conscious or unconscious person. If vomiting occurs, take care to prevent vomit from being inhaled. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: If swallowed and aspirated into the lungs, chemical pneumonia can occur. Swallowing may cause sweating, raised temperature, rapid breathing, and muscle rigidity. Breathing vapours may cause listlessness, raspy breathing, and lung injury. High concentrations may have an anaesthetic effect.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Toxic if swallowed.

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according to SANS 10234:2019 and SANS 11014:2010

4.3. Indication of any immediate medical attention and special treatment needed

If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. There is no known antidote. Treat symptomatically and supportively as and when required. Gastric lavage or the administration of activated charcoal with water may be indicated.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Do not use direct jet of water. Contain water used for fire-fighting for later disposal. Avoid the accumulation of polluted run-off from the site. |

5.2. Special hazards arising from the substance or mixture

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| Fire hazard | : Flammable liquid and vapour. |
| Hazardous decomposition products in case of fire | : This product will emit toxic fumes when burned, including bromide, oxides of nitrogen, cyanides and other bromine compounds. May produce irritating or poisonous mists or other products of combustion. |

5.3. Advice for firefighters

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| Firefighting instructions | : If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. There is no known antidote. Treat symptomatically and supportively as and when required. Gastric lavage or the administration of activated charcoal with water may be indicated. |
| 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, Face-shield |



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

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| Emergency procedures | : No open flames, no sparks, and no smoking. Do not breathe vapours, spray. Only qualified personnel equipped with suitable protective equipment may intervene. |
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6.1.2. For emergency responders

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| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
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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 material for containment and cleaning up

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| For containment | : Collect spillage. |
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Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Methods for cleaning up	<p>: Keep out unprotected persons and animals. Do not touch spilled material; stop leak if you can do it without risk.</p> <p>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.</p> <p>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.</p>
Other information	<p>: Dispose of materials or solid residues at an authorized site.</p>

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	<p>: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe vapours, spray. Do not get in eyes, on skin, or on clothing.</p>
Hygiene measures	<p>: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</p>

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	<p>: Ground/bond container and receiving equipment.</p>
Storage conditions	<p>: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.</p>
Storage area	<p>: Store out of reach of unauthorised persons, children and animals.</p>
Incompatible products	<p>: Product is relatively stable in neutral and weakly acidic media, but rapidly hydrolyzed in strong acids and alkalis. The product is compatible with various herbicides when used at normal rates. However, since it is not possible for Farmag to test all possible combinations, the onus lies with the user to carry out a compatibility test, if tank mixtures are considered. Do not physically mix concentrate directly with other herbicides or pesticide concentrates; always dilute first.</p>
Incompatible materials	<p>: Avoid cross contamination with other pesticides and fertilizers.</p>
Heat and ignition sources	<p>: KEEP SUBSTANCE AWAY FROM: Sources of sparks, flame or heat.</p>
Information on mixed storage	<p>: KEEP SUBSTANCE AWAY FROM: Food supplies. Water supplies.</p>
Maximum storage period	<p>: 2 years</p>
Storage temperature	<p>: < 32 °C</p>

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

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

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according to SANS 10234:2019 and SANS 11014:2010

8.3. Individual protection measures, such as personal protective equipment (PPE)

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. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Clear brown to light brown liquid.
Odour	: Aromatic odour.
Odour threshold	: No data available
pH	: 3 – 5
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.023
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

9.2. Other information

No additional information available

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Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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)	: Toxic if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

Bromoxynil 225 EC (bromoxynil 225 g/l) (1689-99-2)

ATE ZA (oral)	163.204 mg/kg bodyweight
ATE ZA (Dermal)	1680 mg/kg bodyweight
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	59.89% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 67.59% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Bromoxynil TC (1689-99-2)

LD50 oral rat	141 mg/kg (Rat, Oral)
LD50 oral	325 mg/kg
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
LD50 dermal rabbit	1680 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat (Dust/Mist)	0.72 mg/l/4h

Calcium dodecylbenzenesulfonate (26264-06-2)

LD50 oral rat	465 mg/kg
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Skin corrosion/irritation	: Causes mild skin irritation. pH: 3 – 5
Serious eye damage/irritation	: Causes serious eye damage. pH: 3 – 5
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified

Bromoxynil 225 EC (bromoxynil 225 g/l)

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according to SANS 10234:2019 and SANS 11014:2010

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Bromoxynil TC (1689-99-2)

LC50 - Fish [1]	0.06 mg/l bluegill sunfish
LC50 - Fish [2]	0.041 mg/l Rainbow Trout
LC50 - Other aquatic organisms [1]	0.026 mg/l Daphnia
LC50 - Other aquatic organisms [2]	> 0.073 mg/l Lemna gibba
Partition coefficient n-octanol/water (Log Kow)	6.2
Additional ecotoxicological information	Birds: Acute oral LD50 for bobwhite quail 170, mallard ducks 2350, canaries 153 mg/kg. Dietary LC50 (5d) for bobwhite quail 1315, mallard ducks 2150 mg/kg diet. Bees: (LD50, µg/bee) >120 (oral) (96h); >100 (contact) (48 h). Worms: LC50 for earthworms 96.7 mg/kg soil.

Calcium dodecylbenzenesulfonate (26264-06-2)

Partition coefficient n-octanol/water (Log Pow)	14.1
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12.2. Persistence and degradability

Bromoxynil 225 EC (bromoxynil 225 g/l) (1689-99-2)

Persistence and degradability	No additional information available
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Bromoxynil TC (1689-99-2)

Persistence and degradability	Biodegradability in soil: no data available.
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12.3. Bioaccumulative potential

Bromoxynil 225 EC (bromoxynil 225 g/l) (1689-99-2)

Bioaccumulative potential	No additional information available
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Bromoxynil TC (1689-99-2)

Partition coefficient n-octanol/water (Log Kow)	6.2
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Calcium dodecylbenzenesulfonate (26264-06-2)

Partition coefficient n-octanol/water (Log Pow)	14.1
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12.4. Mobility in soil

Bromoxynil 225 EC (bromoxynil 225 g/l) (1689-99-2)

Mobility in soil	No additional information available
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Bromoxynil TC (1689-99-2)

Partition coefficient n-octanol/water (Log Kow)	6.2
Ecology - soil	Not toxic to bees.

Bromoxynil 225 EC (bromoxynil 225 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Calcium dodecylbenzenesulfonate (26264-06-2)

Partition coefficient n-octanol/water (Log Pow) 14.1

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1992	1992	1992
14.2. Proper Shipping Name		
FLAMMABLE LIQUID, TOXIC, N.O.S. ((bromoxynil 225 g/l))	FLAMMABLE LIQUID, TOXIC, N.O.S. ((bromoxynil 225 g/l))	Flammable liquid, toxic, n.o.s. ((bromoxynil 225 g/l))
14.3. Transport hazard class(es)		
3 (6.1)	3 (6.1)	3 (6.1)
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS) : 223, 274
Limited quantities (SANS) : 5 L
Limited quantities (SANS) : 5 L
Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC03
Portable tank and bulk containers instructions (SANS) : T7
Portable tank and bulk container special provisions (SANS) : TP1, TP28

IMDG

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1

Bromoxynil 225 EC (bromoxynil 225 g/l)

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Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y343
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3P

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Issue date : 08/09/2022

Full text of H-statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Safety Data Sheet (SDS), South Africa

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.