

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010 Issue date: 5/14/2024 Revision date: 5/14/2026 Version: 1.1

1.1. Product identifier	
Product form Trade name Type of product Product code Product group	 Mixture Shield disinfecting fogger air conditioner odour treatment Automotive airconditioning system cleaner and disinfectant SH755 Trade product
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	:
1.3. Supplier's details	
Manufacturer Shield Chemicals (Pty) Ltd 9 London Rd Apex P.O. Box 1939 1501 Benoni – Gauteng South Africa T (011) 421 7111 Contact: Jayson Clark	
1.4. Emergency telephone number	
Emergency number	: (011) 421 7111
2.1. Classification of the substance or mix	
SECTION 2: Hazards identification 2.1. Classification of the substance or mix Classification according to the United Nations of Aerosol, Category 1 Serious eye damage/eye irritation, Category 2A Full text of H-statements: see section 16	
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Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: Pressurised container: May burst if heated, Extremely flammable aerosol, Causes serious eye irritation, Toxic to aquatic life

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Ethanol	CAS-No.: 64-17-5	50.0 - 60.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2A, H319 Aquatic Acute Not classified
butane, liquefied, under pressure	CAS-No.: 106-97-8	20.0 - 30.0	Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas)
propane	CAS-No.: 74-98-6	10.0 - 20.0	Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas) Aquatic Acute Not classified

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after eye contact	: Eye irritation.	

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic fumes may be released. 	

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measures	

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.2. For emergency responders	
	and eyes.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin
6.1.1. For non-emergency personnel	

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Collect spillage. Mechanically recover the product. 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	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Wear personal protective equipment.	
Hygiene measures	: 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	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propane (74-98-6)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Propane
OEL TWA	1800 mg/m ³
OEL TWA	1000 ppm
Regulatory reference	Government Notice No. R 904
butane, liquefied, under pressure (106-97-8)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	n-Butane

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

butane, liquefied, under pressure (106-97-8)	
OEL TWA	1430 mg/m ³
OEL TWA	600 ppm
OEL STEL	1780 mg/m³
OEL STEL	750 ppm
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

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

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

Hand protection

Eye protection Skin and body protection Respiratory protection

- : Protective gloves
- : Safety glasses
- protection
- : Wear suitable protective clothing
- : In case of insufficient ventilation, wear suitable respiratory equipment

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.
Odour	: characteristic.
Odour threshold	: No data available
рН	: 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	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Extremely flammable aerosol.
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	: No data available

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
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

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

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

Not classified
Not classified
Not classified
> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
1442.738 – 1443 mg/l 15 MIN
800000 ppm 15 MIN
10470 mg/kg
> 15800 mg/kg
51 mg/l/4h
Not classified
Causes serious eye irritation.
Not classified
Not classified
Not classified

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Not classified		
Not classified		
Not classified		
Shield disinfecting fogger air conditioner odour treatment		
Aerosol		
propane (74-98-6)		
False		
butane, liquefied, under pressure (106-97-8)		
False		
Ethanol (64-17-5)		
False		

SECTION 12: Ecological information

Ecology - general	: Toxic to aquatic life.
Hazardous to the aquatic environment, short-term	: Not classified
(acute)	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
propane (74-98-6)	
LC50 - Fish [1]	24 mg/l (96 h, Pisces, Literature study)
LC50 - Fish [2]	49.9 mg/l (96 h, Pisces, Fresh water, QSAR)
EC50 - Crustacea [1]	7 mg/l (48 h, Daphnia magna, Literature study)
BCF - Fish [1]	9 – 25 (Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (Experimental value, 20 °C)
butane, liquefied, under pressure (106-97-	3)
LC50 - Fish [1]	1000 mg/l (96 h, Pimephales promelas, QSAR)
EC50 72h - Algae [1]	5.3 – 5.5 mg/l (Algae, QSAR)
Partition coefficient n-octanol/water (Log Pow)	2.89 (Experimental value)
Ethanol (64-17-5)	
LC50 - Fish [1]	11.2 mg/l
EC50 - Crustacea [1]	5012 mg/l
Bioconcentration factor (BCF REACH)	< 10

Shield disinfecting fogger air conditioner odour treatment		
Persistence and degradability	No additional information available	
propane (74-98-6)		
Persistence and degradability	Readily biodegradable in water.	
butane, liquefied, under pressure (106-97-8)		
Persistence and degradability	Readily biodegradable in water.	

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Ethanol (64-17-5)			
Chemical oxygen demand (COD)	2.04 g O ₂ /g substance		
12.3. Bioaccumulative potential			
Shield disinfecting fogger air conditioner odour treatment			
Bioaccumulative potential	No additional information available		
propane (74-98-6)			
BCF - Fish [1]	9 – 25 (Pisces, QSAR)		
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (Experimental value, 20 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
butane, liquefied, under pressure (106-97-8)			
Partition coefficient n-octanol/water (Log Pow)	2.89 (Experimental value)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Ethanol (64-17-5)			
Bioconcentration factor (BCF REACH)	< 10		
12.4. Mobility in soil			
Shield disinfecting fogger air conditioner or	lour treatment		
Mobility in soil	No additional information available		
propane (74-98-6)			
Surface tension	0.016 N/m (-47 °C)		
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (Experimental value, 20 °C)		
Ecology - soil	Not applicable (gas).		
butane, liquefied, under pressure (106-97-8)			
Surface tension	< 0.1 N/m (0 °C)		
Partition coefficient n-octanol/water (Log Pow)	2.89 (Experimental value)		
Ecology - soil	Not applicable (gas).		
Ethanol (64-17-5)			
Mobility in soil	1		
12.5. Other adverse effects			
Ozone Other adverse effects	 Not classified No additional information available 		
SECTION 13: Disposal considerations			
13.1. Disposal methods			

13.1. Disposal methods

Waste treatment methods : D

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

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	ΙΑΤΑ
14.1. UN number		1
1950	1950	1950
14.2. Proper Shipping Name		1
AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)		1
2.1	2.1	2.1
14.4. Packing group		
Not applicable	Not applicable	Not applicable
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 Special provisions (SANS) Limited quantities (SANS) Limited quantities (SANS) Packagings, large packagings and IBCs Packing instructions (SANS) Packagings, large packagings and IBCs Special packing instructions (SANS)	 63, 190 See SP277 See SP277 P003 PP17, PP87 	
IMDG Special provisions (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) Segregation (IMDG)	 63, 190, 277, 327, 344, 381, 959 P207, LP200 PP87, L2 F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE) None SW1, SW22 SG69 	
IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: E0 : Y203 : 30kgG : 203 : 75kg : 203 : 150kg : A145, A167, A802 : 10L	

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

Not applicable

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

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 Revision date : 14/05/2024 : 14/05/2026

Full text of H-statements		
H220	Extremely flammable gas	
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H227	Combustible liquid	
H280	Contains gas under pressure; may explode if heated	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H303	May be harmful if swallowed	
H305	May be harmful if swallowed and enters airways	
H311	Toxic in contact with skin	
H313	May be harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	
H371	May cause damage to organs	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

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.