



Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010
Issue date: 2/15/2022 Revision date: 2/15/2024 Supersedes: 8/20/2020 Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Upholstery & carpet cleaner aerosol
Type of product : Cleaning agent
Product code : SH819
Product group : Trade product

1.2. Relevant identified uses of the substance 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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture



Classification according to the United Nations GHS

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 3	H316
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402

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

Hazardous ingredients : propane, butane, liquefied, under pressure, Alcohols, C10-16 ethoxylated, sulfates, sodium salts, Sodium dodecyl sulphate, nonylphenol, ethoxylated

Hazard statements (GHS ZA) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H316 - Causes mild skin irritation
H318 - Causes serious eye damage.
H402 - Harmful to aquatic life

Precautionary statements (GHS ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P273 - Avoid release to the environment.

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

P280 - Wear eye protection, protective clothing, protective gloves.
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.
P332+P313 - If skin irritation occurs: Get medical advice.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Pressurised container: May burst if heated, Extremely flammable aerosol, Causes mild skin irritation, Causes serious eye damage, Harmful 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
butane, liquefied, under pressure	CAS-No.: 106-97-8	5.0 - 10.0	Pyr. Gas Not classified Flam. Gas 1, H220 Aquatic Acute 2, H401
Alcohols, C10-16 ethoxylated, sulfates, sodium salts	-	4.0 - 7.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
nonylphenol, ethoxylated	CAS-No.: 9016-45-9	1.0 - 5.0	Acute Tox. 5 (Oral), H303 Aquatic Acute 3, H402
propane	CAS-No.: 74-98-6	1.0 - 5.0	Pyr. Gas Not classified Flam. Gas 1, H220 Aquatic Acute Not classified
Sodium dodecyl sulphate	CAS-No.: 151-21-3	1.0 - 5.0	Acute Tox. 5 (Dermal), H313 Aquatic Acute 3, H402 Aquatic Chronic 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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
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 : 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 skin contact : Irritation.
Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

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 : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product.
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 : 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 : 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 : 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

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

propane (74-98-6)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Propane
OEL TWA	1800 mg/m ³
OEL TWA [ppm]	1000 ppm
Regulatory reference	Government Notice No. R 904
butane, liquefied, under pressure (106-97-8)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Butane
OEL TWA	1430 mg/m ³
OEL TWA [ppm]	600 ppm
OEL STEL	1780 mg/m ³
OEL STEL [ppm]	750 ppm
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	n-Butane
OEL TWA	1430 mg/m ³
OEL TWA [ppm]	600 ppm
OEL STEL	1780 mg/m ³
OEL STEL [ppm]	750 ppm
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 (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : 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.

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Odour threshold	: No data available
pH	: 5 – 7
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 (solid, gas)	: 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
Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: 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

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))

butane, liquefied, under pressure (106-97-8)	
LC50 Inhalation - Rat	1442.738 – 1443 mg/l 15 MIN
LC50 Inhalation - Rat [ppm]	800000 ppm 15 MIN

Sodium dodecyl sulphate (151-21-3)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

nonylphenol, ethoxylated (9016-45-9)	
LD50 oral	4290 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Mouse, Read-across, Oral)

Skin corrosion/irritation : Causes mild skin irritation.
pH: 5 – 7
Serious eye damage/irritation : Causes serious eye damage.
pH: 5 – 7
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

Upholstery & carpet cleaner aerosol	
Vaporizer	aerosol

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.
Hazardous to the aquatic environment, short-term (acute) : Harmful to aquatic life.
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 (106-97-8)	
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)

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Sodium dodecyl sulphate (151-21-3)	
LC50 - Fish [1]	29 mg/l Test organisms (species): Pimephales promelas
EC50 - Other aquatic organisms [1]	11.1 mg/l Test organisms (species): other aquatic crustacea:Pseudosida ramosa
EC50 72h - Algae [1]	> 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	53 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 1.357 mg/l Test organisms (species): Pimephales promelas Duration: '42 d'

nonylphenol, ethoxylated (9016-45-9)	
ErC50 algae	50 mg/l (Equivalent or similar to EU Method C.3, 48 h, Pseudokirchneriella subcapitata, Static system, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	3.7 (Experimental value, Equivalent or similar to OECD 117, 25 °C)

12.2. Persistence and degradability

Upholstery & carpet cleaner aerosol	
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.

nonylphenol, ethoxylated (9016-45-9)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Upholstery & carpet cleaner aerosol	
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).

nonylphenol, ethoxylated (9016-45-9)	
Partition coefficient n-octanol/water (Log Pow)	3.7 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Upholstery & carpet cleaner aerosol	
Mobility in soil	No additional information available

propane (74-98-6)	
Surface tension	0.016 N/m (-47 °C)

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

propane (74-98-6)	
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).
nonylphenol, ethoxylated (9016-45-9)	
Surface tension	32.3 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Pow)	3.7 (Experimental value, Equivalent or similar to OECD 117, 25 °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




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		
1950	1950	1950
14.2. Proper Shipping Name		
AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)		
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) : 63, 190

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Limited quantities (SANS) : See SP277
Limited quantities (SANS) : See SP277
Packagings, large packagings and IBCs Packing instructions (SANS) : P003
Packagings, large packagings and IBCs Special packing instructions (SANS) : PP17, PP87

IMDG
Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG) : None

IATA
PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167, A802
ERG code (IATA) : 10L

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

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Full text of H-statements	
H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H316	Causes mild skin irritation

Upholstery & carpet cleaner aerosol

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Full text of H-statements	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
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.