

### Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010 Issue date: 5/27/2024 Revision date: 5/27/2026 Version: 1.0

### **SECTION 1: Identification**

#### **1.1. Product identifier**

Product form Trade name Type of product Product code Product group : Mixture: Carb Cleaner: Cleaning agent

: SH212 : 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 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Specific target organ toxicity - Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
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) Hazardous ingredients

Hazard statements (GHS ZA)



- Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy, heptane, methylcyclohexane, octane, toluene, Acetone, 2-propanol
  H222 Extremely flammable aerosol
  H229 Pressurised container: May burst if heated
  - H315 Causes skin irritation
  - H319 Causes serious eye irritation

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	H336 - May cause drowsiness or dizziness
	H340 - May cause genetic defects
	H350 - May cause cancer
	H373 - May cause damage to organs (Skin, respiratory system/digestive system) through
	prolonged or repeated exposure (Inhalation, Oral, Dermal)
	H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS ZA)	: P203 - Obtain, read and follow all safety instructions before use.
	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.
	P260 - Do not breathe dusts or mists.
	P261 - Avoid breathing spray.
	P264 - Wash hands thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water
	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.
	P318 - IF exposed or concerned, get medical advice.
	P319 - Get medical help if you feel unwell.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P332+P317 - If skin irritation occurs: Get medical help.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P391 - Collect spillage.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P405 - Store locked up.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
	P501 - Dispose of contents and container to a hazardous or special waste collection point.
2.3. Other hazards	
Adverse physicochemical, human health and	: Highly flammable liquid and vapour, Causes mild skin irritation, Toxic to aquatic life, Harmful
environmental effects	to aquatic life with long lasting effects.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
toluene	CAS-No.: 108-88-3	25.0 - 30.0	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
2-propanol	CAS-No.: 67-63-0	15.0 - 20.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. Not classified Aquatic Acute Not classified

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Name	Product identifier	%	Classification according to the United Nations GHS
butane, liquefied, under pressure	CAS-No.: 106-97-8	10.0 - 20.0	Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas)
Acetone	CAS-No.: 67-64-1	10.0 - 20.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) STOT SE 3, H336
Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy	CAS-No.: 64742-82-1	5.0 - 10.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304
propane	CAS-No.: 74-98-6	5.0 - 10.0	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 First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>	
4.2. Most important symptoms and effects	, both acute and delayed	
Symptoms/effects after skin contact	: Irritation.	
4.3. Indication of any immediate medical at	ttention 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 Hazardous decomposition products in case of fire	<ul><li>Highly flammable liquid and vapour.</li><li>Toxic fumes may be released.</li></ul>	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained	

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-containe
	breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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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 a	nd cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
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 Hygiene measures	<ul> <li>Ensure good ventilation of the work station. 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. Avoid contact with skin and eyes.</li> <li>Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions	<ul><li>Ground/bond container and receiving equipment.</li><li>Store in a well-ventilated place. Keep cool. Keep container tightly closed.</li></ul>	

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

toluene (108-88-3)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name Toluene	
OEL TWA	188 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL 560 mg/m <sup>3</sup>	
OEL STEL 150 ppm	
Remark Sk (Danger of cutaneous absorption)	
Regulatory reference         Government Notice No. R 904	
Acetone (67-64-1)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name Acetone	
DEL TWA 1185 mg/m <sup>3</sup>	
OEL TWA	500 ppm
OEL STEL 2375 mg/m <sup>3</sup>	

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Acetone (67-64-1)		
OEL STEL	4000 nmm	
	1000 ppm	
Regulatory reference	Government Notice No. R 904	
2-propanol (67-63-0)		
South Africa - Occupational Exposure Limits (	Airborne Pollutants)	
Local name	Isopropyl alcohol (Propan-2-ol)	
OEL TWA	980 mg/m <sup>3</sup>	
OEL TWA	400 ppm	
OEL STEL	1225 mg/m <sup>3</sup>	
OEL STEL	500 ppm	
Regulatory reference	Government Notice No. R 904	
propane (74-98-6)		
South Africa - Occupational Exposure Limits	Airborne Pollutants)	
Local name	Propane	
OEL TWA	1800 mg/m <sup>3</sup>	
OEL TWA	1000 ppm	
Regulatory reference	Government Notice No. R 904	
butane, liquefied, under pressure (106-97	7-8)	
South Africa - Occupational Exposure Limits (	Airborne Pollutants)	
Local name	n-Butane	
OEL TWA	1430 mg/m <sup>3</sup>	
OEL TWA	600 ppm	
OEL STEL	1780 mg/m <sup>3</sup>	
OEL STEL	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

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## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless to light yellow.
Odour	: No data available
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	: 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	: 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	: 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

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly 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

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## 10.6. Hazardous decomposition products

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

Acute toxicity (inhalation)       :       Not classified         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)         LS00 oral rat       > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)         Acetone (67-64-1)       >         LS50 oral rat       5800 mg/kg bodyweight Animal: rat, Animal sex: female         LC50 Inhalation - Rat       76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65, 2 + 88, 4         2-propanol (67-63-0)       >         LD50 oral rat       5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 dermal rabbit       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Inhalation - Rat (ppm)         value, Inhalation - Rat (ppm)       > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         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 (ppm)       800000 ppm 15 MIN         Skin corrosion/irritation       : Causes serious eye irritation.         Serious eye damage/intritation       : Not classified         Sarringenicity       : May cau	SECTION 11: Toxicological inform	nation
Acute toxicity (infmaliton)       i: Not classified         Acute toxicity (infnaliton)       i: Not classified         Acute toxicity (infnaliton)       i: Not classified         Acute toxicity (infnaliton)       i: Not classified         DS0 oral rat       > 5000 mg/kg bodyweight Animal: rat, Guideline. OECD Guideline 401 (Acute Oral Toxicity)         Acetone (67-64-1)       ED50 oral rat       5800 mg/kg bodyweight Animal: rat, Animal sex: female         LD50 oral rat       76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65.2 - 88.4         2-propanol (67-63-0)       Ed800 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 oral rat       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))         LD50 Inhalation - Rat [ppm]       > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         propane (74-98-6)       EC50 Inhalation - Rat [ppm]       > 800000 ppm (5 MilN Simon Case)         LC50 Inhalation - Rat [ppm]       > 800000 ppm (5 MilN Simon Case)       EC50 Inhalation - Rat [ppm]       > 800000 ppm (5 MilN Simon Case)         Sentore spectrimation       Causes skin inflation.       Sentore spectrimation.       Sentore spectrimation.         Sentore spectrimation       Causes skin inflation.       Sentore spectrimation.       Sentore spectrimation.	11.1. Information on toxicological effe	ects
LD50 oral rat       > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)         Acetone (67-64-1)       5800 mg/kg bodyweight Animal: rat, Animal sex: Temale         LD50 oral rat       5800 mg/kg bodyweight Animal: rat, Animal sex: Temale         LD50 oral rat       76 mg/l air Animal: rat, Animal sex: Temale, 95% CL: 65.2 - 88.4         2-propanol (67-63-0)       5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 dermal rabbit       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))         LD50 Inhalation - Rat [ppm]       > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         propane (74-98-6)       2         LC50 Inhalation - Rat [ppm]       > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases)))         butane, liquefied, under pressure (106-97-8)       1260 Inhalation - Rat [ppm]         LC50 Inhalation - Rat [ppm]       > 800000 ppm 15 MilN         Stin consolovi/ritition       : Causes skin initiation.         Serious eye damage/irritation       : Causes skin initiation.         Serious eye damage/irritation       : Not classified         Sam colonviet with sensitistion       : Not classified         Sam colonviet with sensitistion       : Not classified	Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified
Toxicity           Acetone (67-64-1)           LD50 oral rat           S600 mg/kg bodyweight Animal: rat, Animal sex: female           LC50 Inhalation - Rat           2-propanol (67-63-0)           LD50 oral rat           D50 oral rat           D5	Naphtha (petroleum), hydrodesulfuriz	zed heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)
LD50 oral rat       5800 mg/kg bodyweight Animal: rat, Animal sex: female         LC50 Inhalation - Rat       76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65.2 - 88,4         2-propanol (67-63-0)       5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 dermal rabbit       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))         LC50 Inhalation - Rat (ppm)       > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         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 (ppm]       > 800000 ppm 15 MIN         Skin corrosior/infitation       : Causes skin irritation.         Serious eye damage/irritation       : Causes serious eye irritation.         Respiratory or skin sensitisation       : May cause genetic defects.         Carcinogenicity       : May cause damage.         STOT-single exposure       Not casilfied         STOT-single exposure       Not available         Acctone (67-64-1)       Stod available         STOT-single exposure       Not available         2-propanol (67-63-0)       Stod	LD50 oral rat	
LC50 Inhalation - Rat       76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65.2 - 88.4         2-propanol (67-63-0)       LD50 oral rat         LD50 oral rat       5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 dermal rabbit       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))         LC50 Inhalation - Rat (ppm)       > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         propane (74-98-6)	Acetone (67-64-1)	<u>`</u>
2-propanol (67-63-0)         LD50 oral rat       5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))         LD50 dermal rabbit       16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))         LC50 Inhalation - Rat [ppm]       > 10000 opm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         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         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Cause skin irritation.         Serious eye damage/irritation       : Way cause genetic defects.         Carcinogenicity       : May cause cancer.         Reproductive toxicity       : Not classified         STOT-single exposure       Not available         Acetone (67-64-1)       Stot classified         STOT-single exposure       Not available         Z-propanol (67-63-0)       Stot available         STOT-single exposure       Not available <t< td=""><td>LD50 oral rat</td><td>5800 mg/kg bodyweight Animal: rat, Animal sex: female</td></t<>	LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female
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value, Dermal, 14 day(s))         LC50 Inhalation - Rat [ppm]         > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))         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 [ppm]         800000 ppm (15 MIN         LC50 Inhalation - Rat [ppm]         800000 ppm 15 MIN         Skin corrosion/irritation         : Causes skin irritation.         Serious eye damage/irritation         : Causes serious eye irritation.         Seport of the still station in the still statin in the still station in the still station in the sti		
value, Inhalation (vapours), 14 day(s))         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         skin corrosion/irritation       : Causes skin irritation.         Serious eyd damage/irritation       : Causes serious eye irritation.         Serious eyd damage/irritation       : Not classified         Garm cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       : Not available         STOT-single exposure       Not available         Acctone (67-64-1)       : Not available         STOT-single exposure       Not available         2-propanol (67-63-0)       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	LD50 dermal rabbit	
LC50 Inhalation - Rat [ppm]       > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))         butane, liquefied, under pressure (106-97-8)       1442.738 – 1443 mg/l 15 MIN         LC50 Inhalation - Rat       1442.738 – 1443 mg/l 15 MIN         LC50 Inhalation - Rat [ppm]       800000 ppm 15 MIN         Skin corrosion/irritation       Causes skin irritation.         Serious eye damage/irritation       : Causes skin irritation.         Respiratory or skin sensitisation       : Not classified         Germ cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : May cause drowsiness or dizziness.         toluene (108-88-3)       STOT-single exposure         STOT-single exposure       Not available         Acetone (67-64-1)       STOT-single exposure         STOT-single exposure       Not available         STOT-repeate	LC50 Inhalation - Rat [ppm]	
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         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Causes serious eye irritation.         Respiratory or skin sensitisation       : Not classified         Germ cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       STOT-single exposure         STOT-single exposure       Not available         Acetone (67-64-1)       StoT-single exposure         STOT-single exposure       Not available         2-propanol (67-63-0)       StoT-single exposure         STOT-single exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	propane (74-98-6)	
LC50 Inhalation - Rat       1442.738 – 1443 mg/l 15 MIN         LC50 Inhalation - Rat [ppm]       800000 ppm 15 MIN         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Causes serious eye irritation.         Respiratory or skin sensitisation       : Not classified         Germ cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : May cause cancer.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       :         STOT-single exposure       Not available         Acetone (67-64-1)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       :         STOT-single exposure       :         May cause dramage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
LC50 Inhalation - Rat [ppm]       800000 ppm 15 MIN         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Causes serious eye irritation.         Respiratory or skin sensitisation       : Not classified         Gern cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : May cause cancer.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       :         STOT-single exposure       Not available         Acetone (67-64-1)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       :         STOT-single exposure       :         STOT-single exposure       :         Not available       :         2-propanol (67-63-0)       :         STOT-single exposure       :         May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	butane, liquefied, under pressure (10	6-97-8)
Skin corrosion/irritation       :       Causes skin irritation.         Serious eye damage/irritation       :       Causes serious eye irritation.         Respiratory or skin sensitisation       :       Not classified         Germ cell mutagenicity       :       May cause genetic defects.         Carcinogenicity       :       May cause cancer.         Reproductive toxicity       :       Not classified         STOT-single exposure       :       May cause drowsiness or dizziness.         toluene (108-88-3)       :       STOT-single exposure         STOT-single exposure       Not available         Acetone (67-64-1)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       :         STOT-single exposure       :         May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	LC50 Inhalation - Rat	1442.738 – 1443 mg/l 15 MIN
Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : May cause genetic defects. Carcinogenicity : May cause cancer. Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. toluene (108-88-3) STOT-single exposure Not available Acetone (67-64-1) STOT-single exposure Not available 2-propanol (67-63-0) STOT-single exposure Not available STOT-single exposure Not available	LC50 Inhalation - Rat [ppm]	800000 ppm 15 MIN
Respiratory or skin sensitisation       : Not classified         Germ cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : May cause cancer.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       STOT-single exposure         STOT-single exposure       Not available         Acetone (67-64-1)       STOT-single exposure         STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-single exposure       Not available         STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-single exposure       Not available         STOT-repeated exposure       Naty cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)       Naphtha (petroleum), hydrodesulfurized heavy (64742	Skin corrosion/irritation	: Causes skin irritation.
Germ cell mutagenicity       : May cause genetic defects.         Carcinogenicity       : May cause cancer.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       :         STOT-single exposure       Not available         Acetone (67-64-1)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-repeated exposure       Not available         STOT-repeated exposure       :         May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	Serious eye damage/irritation	: Causes serious eye irritation.
Carcinogenicity : May cause cancer. Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. toluene (108-88-3) STOT-single exposure Not available Acetone (67-64-1) STOT-single exposure Not available 2-propanol (67-63-0) STOT-single exposure Not available STOT-repeated exposure : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal). Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	Respiratory or skin sensitisation	: Not classified
Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       :         STOT-single exposure       Not available         Acetone (67-64-1)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       Not available         2-propanol (67-63-0)       :         STOT-single exposure       :         STOT-single exposure       :         Not available       :         STOT-repeated exposure       :         May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	Germ cell mutagenicity	: May cause genetic defects.
STOT-single exposure       : May cause drowsiness or dizziness.         toluene (108-88-3)       STOT-single exposure         STOT-single exposure       Not available         Acetone (67-64-1)       STOT-single exposure         STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-repeated exposure       Not available         STOT-repeated exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	Carcinogenicity	: May cause cancer.
toluene (108-88-3)         STOT-single exposure       Not available         Acetone (67-64-1)         STOT-single exposure       Not available         2-propanol (67-63-0)         STOT-single exposure       Not available         STOT-repeated exposure       May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	,	
STOT-single exposure       Not available         Acetone (67-64-1)       Not available         STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-single exposure       Not available         STOT-repeated exposure       Not available         STOT-repeated exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	STOT-single exposure	: May cause drowsiness or dizziness.
Acetone (67-64-1)         STOT-single exposure       Not available         2-propanol (67-63-0)         STOT-single exposure       Not available         STOT-repeated exposure       Not available         STOT-repeated exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	toluene (108-88-3)	
STOT-single exposure       Not available         2-propanol (67-63-0)       STOT-single exposure         STOT-single exposure       Not available         STOT-repeated exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	STOT-single exposure	Not available
2-propanol (67-63-0)         STOT-single exposure       Not available         STOT-repeated exposure       : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	Acetone (67-64-1)	
STOT-single exposure       Not available         STOT-repeated exposure       May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal).         Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	STOT-single exposure	Not available
STOT-repeated exposure : May cause damage to organs (Skin, respiratory system/digestive system) through prolonged or repeated exposure (Inhalation, Oral, Dermal). Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	2-propanol (67-63-0)	
prolonged or repeated exposure (Inhalation, Oral, Dermal). Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	STOT-single exposure	Not available
	STOT-repeated exposure	
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	Naphtha (petroleum), hydrodesulfuria	zed heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)
	STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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toluene (108-88-3)		
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard :	Not classified	
Carb Cleaner		
Vaporizer	Aerosol	
Naphtha (petroleum), hydrodesulfurized heav	y / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
Animal studies and expert judgment for classification	False	
toluene (108-88-3)		
Animal studies and expert judgment for classification	False	
Acetone (67-64-1)		
Animal studies and expert judgment for classification	False	
2-propanol (67-63-0)		
Animal studies and expert judgment for classification	False	
propane (74-98-6)		
Animal studies and expert judgment for classification	False	
butane, liquefied, under pressure (106-97-8)		
Animal studies and expert judgment for classification	False	

## SECTION 12: Ecological information

12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Acetone (67-64-1)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2-propanol (67-63-0)	·
LC50 - Fish [1]	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Lethal)
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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)

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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)

### 12.2. Persistence and degradability

Carb Cleaner		
Persistence and degradability	No additional information available	
2-propanol (67-63-0)		
Persistence and degradability         Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Rea           biodegradable in water.         biodegradable in water.		
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance	
ThOD	2.4 g O <sub>2</sub> /g substance	
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.	

## 12.3. Bioaccumulative potential

Carb Cleaner	
Bioaccumulative potential No additional information available	
2-propanol (67-63-0)	·
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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).

### 12.4. Mobility in soil

Carb Cleaner	
Mobility in soil No additional information available	
2-propanol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)

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2-propanol (67-63-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
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).
12.5. Other adverse effects	
Ozone :	Not classified

Other adverse effects

Not classifiedNo additional information available

SECTION 13: Disposal consider	ations
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**

SANS	IMDG	ΙΑΤΑ
14.1. UN number		I
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 : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

**14.6. Special precautions for user** 

SANS	
Special provisions (SANS)	: 63, 190
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
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69
ΙΑΤΑ	
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

SECTION 16	: Other information	
Issue date Revision date	: 27/05/2024 : 27/05/2026	
Full text of H-	statements	
H220	Extremely flammable gas	
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H280	Contains gas under pressure; may explode if heated	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H313	May be harmful in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

Full text of H-statements	
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic 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.