



Tool in-a-can - Multi Purpose Lubricant 375ml & 500ml

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010
Issue date: 5/27/2024 Revision date: 5/27/2026 Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: Tool in-a-can - Multi Purpose Lubricant 375ml & 500ml
Type of product	: Aerosol penetrating fluid
Product code	: SH47, SH729
Product group	: Trade product

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

Use of the substance/mixture	: Aerosol penetrating fluid
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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
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Aerosol, Category 1	H222;H229
Oxidising liquids Not classified	
Skin corrosion/irritation, Category 3	H316
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Specific target organ toxicity – Repeated exposure, Category 1	H372
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)

: Danger

Hazardous ingredients

: Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy, Distillates petroleum hydro treated heavy paraffinic

Hazard statements (GHS ZA)

: H222 - Extremely flammable aerosol
H229 - Pressurised container: May burst if heated
H316 - Causes mild skin irritation
H340 - May cause genetic defects

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Precautionary statements (GHS ZA)	H350 - May cause cancer H372 - Causes damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects : 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. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P318 - IF exposed or concerned, get medical advice. P319 - Get medical help if you feel unwell. P332+P317 - If skin irritation occurs: Get medical help. P391 - Collect spillage. P405 - Store locked up. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 - Dispose of contents and container to Collection point, a hazardous or special waste collection point.
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2.3. Other hazards

Adverse physicochemical, human health and environmental effects	: Pressurised container: May burst if heated, Extremely flammable aerosol, May cause cancer, May cause genetic defects, Causes damage to organs through prolonged or repeated exposure, Causes mild skin irritation, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.
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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 EC Index-No.: 601-004-00-0	10.0 - 20.0	Flam. Gas 1, H220 Pyr. Gas Not classified Press. Gas (Liq.), H280 Acute Tox. Not classified (Inhalation:gas)
Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy	CAS-No.: 64742-82-1	10.0 - 15.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Kerosine (petroleum)	CAS-No.: 8008-20-6	1.0 - 5.0	Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 STOT RE Not classified Asp. Tox. 1, H304
Acetone	CAS-No.: 67-64-1	1.0 - 5.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) STOT SE 3, H336

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Name	Product identifier	%	Classification according to the United Nations GHS
2-propanol	CAS-No.: 67-63-0 EC Index-No.: 603-117-00-0	1.0 - 5.0	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 Aquatic Chronic Not classified
heptane	CAS-No.: 142-82-5 EC Index-No.: 601-008-00-2	0.0 - 0.5	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
methylcyclohexane	CAS-No.: 108-87-2 EC Index-No.: 601-018-00-7	0.0 - 0.5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
octane	CAS-No.: 111-65-9	1.0 - 5.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
toluene	CAS-No.: 108-88-3 EC Index-No.: 601-021-00-3	0.0 - 0.5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
xylene	CAS-No.: 1330-20-7 EC Index-No.: 601-022-00-9	0.0 - 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
propane	CAS-No.: 74-98-6 EC Index-No.: 601-003-00-5	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 general	: IF exposed or concerned: Get medical advice/attention.
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 eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : 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 : 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 : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe mist, vapours.

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. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product. 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 : 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe mist, vapours. Avoid contact with skin and eyes.

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Hygiene measures : Separate working clothes from town clothes. Launder separately. 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 locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methylcyclohexane (108-87-2)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Methylcyclohexane
RHCA - STEL/C [ppm]	800 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Methylcyclohexane
OEL TWA	1600 mg/m ³
OEL TWA	400 ppm
OEL STEL	2000 mg/m ³
OEL STEL	500 ppm
Regulatory reference	Government Notice No. R 904
toluene (108-88-3)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Toluene
OEL eight hour TWA [ppm]	150 ppm
OEL eight hour TWA	560 mg/m ³
RHCA - STEL/C [ppm]	40 ppm 50 ppm
RHCA - STEL/C	188 mg/m ³
Remark	SKIN (danger of cutaneous absorption) Sk
Regulatory reference	Government Notice No. R. 280, 2021 Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Toluene
OEL TWA	188 mg/m ³
OEL TWA	50 ppm
OEL STEL	560 mg/m ³
OEL STEL	150 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904

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xylene (1330-20-7)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA	218 mg/m ³
OEL TWA	50 ppm
OEL STEL	435 mg/m ³
OEL STEL	100 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
Acetone (67-64-1)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Acetone
OEL eight hour TWA [ppm]	1000 ppm
RHCA - STEL/C [ppm]	500 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Acetone
OEL TWA	1185 mg/m ³
OEL TWA	500 ppm
OEL STEL	2375 mg/m ³
OEL STEL	1000 ppm
Regulatory reference	Government Notice No. R 904
2-propanol (67-63-0)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Propan-2-ol (Isopropyl alcohol)
OEL eight hour TWA [ppm]	500 ppm
OEL eight hour TWA	1225 mg/m ³
RHCA - STEL/C [ppm]	400 ppm
RHCA - STEL/C	960 mg/m ³ Isopropyl alcohol 980 mg/m ³ Propan-2-ol
Remark	Sk
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Isopropyl alcohol (Propan-2-ol)
OEL TWA	980 mg/m ³
OEL TWA	400 ppm
OEL STEL	1225 mg/m ³
OEL STEL	500 ppm
Regulatory reference	Government Notice No. R 904

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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
OEL TWA	1430 mg/m ³
OEL TWA	600 ppm
OEL STEL	1780 mg/m ³
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 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 : Light yellow.
Odour : characteristic.
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : 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

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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
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

11.1. Information on toxicological effects

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

Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
Kerosine (petroleum) (8008-20-6)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

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Kerosine (petroleum) (8008-20-6)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 29.29 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), > 4 day(s))
octane (111-65-9)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 24.88 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Acetone (67-64-1)	
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)	
LD50 oral rat	5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 ml/kg (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	1442.738 – 1443 mg/l 15 MIN
LC50 Inhalation - Rat [ppm]	800000 ppm 15 MIN
Skin corrosion/irritation	: Causes mild skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
heptane (142-82-5)	
STOT-single exposure	Not available
methylcyclohexane (108-87-2)	
STOT-single exposure	Not available

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octane (111-65-9)	
STOT-single exposure	Not available
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	: Causes damage to organs through prolonged or repeated exposure.
Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Kerosine (petroleum) (8008-20-6)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female
NOAEC (inhalation, rat, vapour, 90 days)	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
octane (111-65-9)	
NOAEC (inhalation, rat, vapour, 90 days)	24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
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Vaporizer	Aerosol
Naphtha (petroleum), hydrodesulfurized heavy / Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
Animal studies and expert judgment for classification	False
Kerosine (petroleum) (8008-20-6)	
Animal studies and expert judgment for classification	False
heptane (142-82-5)	
Animal studies and expert judgment for classification	False
methylcyclohexane (108-87-2)	
Animal studies and expert judgment for classification	False
octane (111-65-9)	
Animal studies and expert judgment for classification	False
toluene (108-88-3)	
Animal studies and expert judgment for classification	False
xylylene (1330-20-7)	
Animal studies and expert judgment for classification	False
Acetone (67-64-1)	
Animal studies and expert judgment for classification	False

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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

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

heptane (142-82-5)	
EC50 72h - Algae [1]	4.338 mg/l (Pseudokirchneriella subcapitata, Fresh water, QSAR, Biomass)
BCF - Other aquatic organisms [1]	552 (BCFBAF v3.00, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	4.5 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
octane (111-65-9)	
EC50 - Crustacea [1]	0.3 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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)
BCF - Fish [1]	1015 (BCFBAF v3.01, Estimated value)
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]	50 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1.1 – 2.8 (Experimental value, 20 °C)
butane, liquefied, under pressure (106-97-8)	
LC50 - Fish [1]	1000 mg/l (96 h, Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	2.8 (Experimental value, 20 °C)

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12.2. Persistence and degradability

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Persistence and degradability	No additional information available
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heptane (142-82-5)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
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Biochemical oxygen demand (BOD)	1.92 g O ₂ /g substance
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Chemical oxygen demand (COD)	0.06 g O ₂ /g substance
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ThOD	3.52 g O ₂ /g substance
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2-propanol (67-63-0)

Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
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Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance
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Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
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ThOD	2.4 g O ₂ /g substance
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propane (74-98-6)

Persistence and degradability	Readily biodegradable in water.
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butane, liquefied, under pressure (106-97-8)

Persistence and degradability	Readily biodegradable in water.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available
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heptane (142-82-5)

BCF - Other aquatic organisms [1]	552 (BCFBAF v3.00, Calculated value)
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Partition coefficient n-octanol/water (Log Pow)	4.5 (Literature)
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
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2-propanol (67-63-0)

BCF - Fish [1]	1015 (BCFBAF v3.01, Estimated value)
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Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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propane (74-98-6)

Partition coefficient n-octanol/water (Log Pow)	1.1 – 2.8 (Experimental value, 20 °C)
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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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butane, liquefied, under pressure (106-97-8)

Partition coefficient n-octanol/water (Log Pow)	2.8 (Experimental value, 20 °C)
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Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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heptane (142-82-5)

Surface tension	19.66 mN/m (25 °C)
Partition coefficient n-octanol/water (Log Pow)	4.5 (Literature)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

2-propanol (67-63-0)

Surface tension	No data available (test not performed)
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)
Ecology - soil	Highly mobile in soil.

propane (74-98-6)

Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	1.1 – 2.8 (Experimental value, 20 °C)
Ecology - soil	Not applicable (gas).

butane, liquefied, under pressure (106-97-8)

Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	2.8 (Experimental value, 20 °C)
Ecology - soil	Not applicable (gas).

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

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SANS	IMDG	IATA
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
No supplementary information available		

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

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

Issue date	: 27/05/2024
Revision date	: 27/05/2026

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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
H303	May be harmful if swallowed
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
H316	Causes mild skin irritation
H319	Causes serious eye irritation
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.