

SAFETY DATA SHEET according to regulation 1907/2006



Product name: Wolfchester Dry Lube

Creation date: 23.03.2022, **Revision:** 23.03.2022, **version:** 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Wolfchester Dry Lube
Part Code: TAUS400DL

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

Relevant identified uses

Lubricant.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

Wolfchester Australia Pty Ltd
4/122 Beresford Road
Lilydale, VIC 3140

E-Mail: sales@wolfchester.com.au
Web: www.wolfchester.com.au

1.4 Emergency Telephone Number

Emergency

+61 3 9737 2800

Supplier

+61 3 9737 2800

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229.1 Pressurised container: May burst if heated.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315 Causes skin irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]


Signal word: Danger

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

P102 Keep out of reach of children.

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.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

2.3 Other hazards

Vapors can form an explosive mixture with air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

NAME	CAS EC INDEX REACH	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)	SPECIFIC CONC. LIMITS	NOTES FOR SUBSTANCES
isobutane	75-28-5 200-857-2 - 01-2119485395-27	50-100	Flam. Gas 1; H220 Press. Gas; H280	/	/
propane	74-98-6 200-827-9 - 01-2119485394-21	10-25	Flam. Gas 1; H220 Press. Gas; H280	/	/
hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0 921-024-6 - 01-2119475514-35	10-<24	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/	/
Poly(tetrafluoroethylen e)	9002-84-0 - -	<2,5	/	/	/

n-hexane	110-54-3 203-777-6 601-037-00-0	<1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 2; H411	/	/
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SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing with water before removing or use gloves. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. Obtain professional medical help! In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Not likely. Accidental ingestion: If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Immediately consult a doctor. Do not induce vomiting without prior consultation with a doctor. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Vapours may cause drowsiness and dizziness. Affects central nervous system: Signs/symptoms are headache, dizziness, drowsiness, loss of coordination, slow reaction time, vaguely pronunciation, vertigo, unconsciousness. Inhalation of ultrafine, low molecular mass fluoropolymer particles produces the characteristics/symptoms of 24-hour "polymer fever": chest pain or tightness, shortness of breath, cough, malaise, muscle pain, increased heart rate, fever, chills, increased sweating, nausea, and headache. Coughing, sneezing, nasal discharge, labored breathing. Inhalation of low concentrations of hydrogen fluoride HF and carbonyl fluoride COF₂ may cause symptoms of respiratory distress, irritation of the lungs with coughing, nasal and throat irritation. After a symptom-free course of one to two days, there is fever, chills, shortness of breath, cyanosis and pulmonary edema. Acute or chronic excessive inhalation of HF can result in deleterious effects on the liver and kidneys. Inhalation of perfluoroisobutylene PFIB causes severe pulmonary edema with rales, shortness of breath, tremors and cyanosis. Coughing and chest pains may occur at the initial stage. Excessive effect can lead to death [LC50 (oral rat) = 1.05 ppm / 2 h.

Following skin contact

Irritating to the skin. Itching, redness, pain.

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

Ingestion is unlikely because it is an aerosol. Accidental ingestion: Aspiration into the lungs causes coughing, shortness of

breath and may lead to chemical pneumonia. May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).

Fire extinguishing powder.

Water fog.

Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. Formation of toxic gases is possible during heating or in case of fire. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

Carbonyl fluoride (COF₂).

Hydrogen fluoride (HF). Perfluoroisobutene (C₄F₈).

Hexafluoropropylene (C₃F₆).

Tetrafluoroethylene (C₂F₄).

Ultrafine low molecular mass fluoropolymer particles. Formaldehyde.

5.3 Advice for firefighters

Protective actions

No action shall be taken involving any personal risk or without suitable training. In case of fire or heating do not breathe fumes/vapours. In case of fire aerosols can explode and be propelled to considerable distances in different directions. Prolonged heating can cause an explosion. Use water to cool exposed surfaces and to protect the firefighters. Cool the endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. Vapours can form explosive mixtures with air.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system. In the presence of moist air, carbonyl fluoride hydrolyzes to form hydrogen fluoride and carbon dioxide. Vapors containing these substances are extremely toxic, if inhaled in large quantities, they have an immediate harmful effect on health. HYDROFLUORIC VAPORS REACT WITH WATER TO FORM HYDROFLUORIC ACID. It is essential that firefighters and their equipment are thoroughly decontaminated with water after fighting fires and steam action. The machinery and equipment involved in fighting the fire must be decontaminated before maintenance or rescue work.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). In case of insufficient ventilation, use respiratory protection equipment.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist. Do not use open fire and keep away all sources of ignition. Danger of slipping on spilled product. Prevent access to unauthorised personnel.

For emergency responders

Use personal protective equipment. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

The product is an aerosol, which is why leakage of large amounts of product is not expected. In case of release into the environment, inform the relevant authorities. Do not allow product to reach water/drains/sewage systems or permeable soil.

6.3 Methods and material for containment and cleaning up**For containment**

Stem the spill if this does not pose risks.

For cleaning up

Use spark-proof tools. Ventilate the premises. Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Evaluate the compatibility of the container to be used, by checking section 10.

OTHER INFORMATION

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling****Protective measures****Measures to prevent fire**

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Vapours and air form explosive mixtures. Ensure proper grounding of the equipment. To reduce the accumulation of static electricity charges, the relative humidity in the work area must be above 50%.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Avoid release to the environment.

Other measures

No information.

Advice on general occupational hygiene

Consider measures required in Section 8 of this safety data sheet. Wear suitable protective equipment; see Section 8. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Remove contaminated clothes and wash them before reuse. Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory protection equipment. Smoking while handling the product may lead to tobacco/smoke contamination and polymer fever caused by the formation of hazardous decomposition products listed in Section 5 of the Safety Data Sheet.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Keep out of the reach of children. Keep in a cool, dry and well ventilated place. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances.

Packaging materials

PTFE. Carbon steel. Stainless steel. Polyvinyl alcohol (PVA). Incompatible materials: Natural rubbers, Butyl rubber, EPDM, Polystyrene. Polyethylene. Polyacrylonitrile.

Requirements for storage rooms and vessels

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

NAME	MG/M ³	ML/M ³	SHORT-TERM VALUE MG/M ³	SHORT-TERM VALUE ML/M ³	REMARK	BIOLOGICAL TOLERANCE VALUES
Cycloalkanes ≥C7	800	/	/	/	/	/
Cycloalkanes C5 – C6	1800	/	/	/	/	/
Normal and branched chain alkanes ≥C7	1200	/	/	/	/	/
Normal and branched chain alkanes C5 – C6	1800	/	/	/	/	/
n-Hexane (110-54-3)	72	20	/	/	/	/

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

NAME	TYPE	EXPOSURE ROUTE	EXP. FREQUENCY	REMARK	VALUE
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	inhalation	long term systemic effects	/	2035 mg/m ³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	dermal	long term systemic effects	/	773 mg/kg bw/day

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	inhalation	long term systemic effects	/	608 mg/m ³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	dermal	long term systemic effects	/	699 mg/kg bw/day
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	oral	long term systemic effects	/	699 mg/kg bw/day
n-hexane	Worker	inhalation	long term systemic effects	/	75 mg/m ³
n-hexane	Worker	dermal	long term systemic effects	/	11 mg/kg bw/day
n-hexane	Consumer	inhalation	long term systemic effects	/	16 mg/m ³
n-hexane	Consumer	dermal	long term systemic effects	/	5.3 mg/kg bw/day
n-hexane	Consumer	oral	long term systemic effects	/	4 mg/kg bw/day

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Avoid contact with skin, eyes and clothes. Use personal protective equipment in accordance with the Regulation (EU) 2016/425.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Where possible, the product should be used in a closed system.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). The product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective work clothing resistant to liquid chemicals (EN 14605). Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). Choose body protection according to the activity and possible exposure.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). If handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used,

according to standard EN 137, EN 138. For a correct choice of respiratory protection device, see standard EN 529. If handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

Implement measures to protect the environment.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Prevent exposure in the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid - aerosol

Colour

colourless

Odour

characteristic

Important health, safety and environmental information

Odour threshold	No information.
pH	substance/mixture is non-soluble (in water)
Melting point/Freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	1 – 9.5 vol %
Vapour pressure	60 hPa
Vapour density	No information.
Density / weight	Density: 0.834 g/cm ³ (data refers to the liquid portion of the product)
Solubility	Water: insoluble
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

9.2 OTHER INFORMATION

Weight organic solvents	545 g/l 93 %
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Extremely flammable aerosol.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants. Aluminum and magnesium powder. Fluorine.
Chlorine trifluoride.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. Hazardous decomposition products could be formed by thermal decomposition. In case of fire/explosion vapours/gases that pose a health hazard are released. Hazardous combustion products, see Section 5 of the safety data sheet.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****(a) Acute toxicity****For components**

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	METHOD	REMARK
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	oral	LD ₅₀	rat	/	> 5840 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	dermal	LD ₅₀	rat	/	> 2920 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	inhalation (vapours)	LC ₅₀	rat	4 h	> 25.2 mg/l	/	/

Additional information

The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

No information.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

No information.

Additional information

The product is not classified as an irritant to the eyes.

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

May cause drowsiness or dizziness.

(i) STOT-repeated exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	EXPOSURE	ORGAN	VALUE	RESULT	METHOD	REMARK
Poly(tetrafluoroethylene)	/	/	/	/	/	/	/	After inhalation of products of thermal decomposition in large quantities [at temperatures 400 °C], after a symptom-free period (4 to 24 hours) pulmonary edema with the danger of suffocation appears.	/	/

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EL ₅₀	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	LL ₅₀	11.4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
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Chronic (long-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	NOELR	2045 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

NAME	TYPE	RATE	TIME	EVALUATION	METHOD	REMARK
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	biodegradability	%	16 days	readily biodegradable	/	Oxygen consumption

12.3 Bioaccumulative potential

Partition coefficient

For components

NAME	MEDIA	VALUE	TEMPERATURE °C	PH	CONCENTRATION	METHOD
propane	Octanol-water (log Pow)	1.09	20	7	/	/

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

No information.

12.7 Additional information

For product

Water hazard class 2 (self-assessment): hazardous for water. Harmful to aquatic life with long lasting effects. Avoid release to the environment.

For components

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Poly(tetrafluoroethylene)

Separation by filtration or deposit due to water insolubility possible.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Completely emptied containers leave to approved waste disposal authorities in charge. Uncleaned containers should not be perforated, cut or welded.

Waste codes / waste designations according to LoW

15 01 11* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
2	2	2	2

			
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 1 L Special provisions 190, 327, 344, 625 Packing Instructions P207, LP200 Special packing provisions PP87, RR6, L2 Transport category 2 Tunnel restriction code (D)	Limited quantities 1 L EmS F-D, S-U	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y203 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 203 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 kg Special provisions A145, A167, A802	Limited quantities 1 L
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
Goods may not be carried in bulk in bulk containers, containers or vehicles.	Goods may not be carried in bulk in bulk containers, containers or vehicles.	Not given/not applicable	Not given/not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Regulation EC 648/2004 on detergents
No information.

Special instructions
No information.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 CEN - European Committee for Standardisation
 C&L - Classification and Labelling
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 CAS# - Chemical Abstracts Service number
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 DPD - Dangerous Preparations Directive 1999/45/EC
 DSD - Dangerous Substances Directive 67/548/EEC
 DU - Downstream User
 EC - European Community
 ECHA - European Chemicals Agency
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
 EEC - European Economic Community
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 EN - European Standard
 EQS - Environmental Quality Standard
 EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario
 GHS - Globally Harmonized System
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 IMSBC - International Maritime Solid Bulk Cargoes
 IT - Information Technology
 IUCLID - International Uniform Chemical Information Database
 IUPAC - International Union for Pure Applied Chemistry
 JRC - Joint Research Centre
 Kow - octanol-water partition coefficient
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 LE - Legal Entity
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
 LR - Lead Registrant
 M/I - Manufacturer / Importer
 MS - Member States
 MSDS - Material Safety Data Sheet
 OC - Operational Conditions
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OJ - Official Journal
 OR - Only Representative
 OSHA - European Agency for Safety and Health at work
 PBT - Persistent, Bioaccumulative and Toxic substance
 PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.