



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Diesel Treatment

Revision date: 15/04/2014

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

SILVERHOOK Diesel Treatment

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

Fuel Additive

1.3 Details of the supplier of the safety data sheet

Supplier

Silverhook Ltd

Unit 14, Bates Road
Harold Wood
London
RM3 0JH
England

1.4 Emergency Telephone Number

+44 (0)1708330500 (available during office hours 8:00 - 16:30)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Harmful: may cause lung damage if swallowed.

Xn ; R 65 · R 66

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

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



Xn ; Harmful

R-phrases

65

Harmful: may cause lung damage if swallowed.

66

Repeated exposure may cause skin dryness or cracking.

S-phrases

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

This material and its container must be disposed of in a safe way.

Avoid contact with skin.

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

Hazard pictograms



Health hazard (GHS08)

Signal word

Danger

Hazard Statements

May be fatal if swallowed and enters airways. Harmful if in contact with skin. Toxic to aquatic life with long lasting effects

Precautionary statements

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. If skin irritation occurs get medical attention. Avoid breathing dust/fume/gas/mist/vapours/spray.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Diesel Treatment

Revision date: 15/04/2014

Wash thoroughly after handling. Avoid release to the environment. Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations

Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None

3. Composition/ Information on ingredients

3.2 Mixtures

Hazardous ingredients

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT / KEROSENE - UNSPECIFIED ; EC No : 265-149-8; CAS No. : 64742-47-8	
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Weight fraction :	80 - 98 %
Classification 67/548/EEC :	Xn ; R65
Classification 1272/2008 [CLP] :	Asp.Tox. 1 ; H304

2-ETHYLHEXLNITRATE; REACH registration No: 01-211539586-27; EC No : 248-363-3; CAS No. :	
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Weight fraction :	4 - 5 %
Classification 67/548/EEC :	N Xn ; R20/21/22 R44 R51/53 R66
Classification 1272/2008 [CLP] :	Acute.Tox. 4; H302 H312 H332; Aquatic Chronic 2 ; H411

2-ETHYLHEXAN-1-OL; REACH registration No: 01-2119487289-20; EC No 203-234-3	
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Weight fraction :	0.1 - 0.5 %
Classification 67/548/EEC :	Xn ; R20 R36/37/38
Classification 1272/2008 [CLP] :	Acute Tox 4; H332; Eye Irrit 2; H319 Skin Irrit 2; H315; STOT SE3; H319

BUTANEDIOIC ACID, POLYISOBUTENYL DERIVATIVES; EC No : POLYMER	
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Weight fraction :	0.1 - 0.5 %
Classification 67/548/EEC :	-
Classification 1272/2008 [CLP] :	Eye Irrit 2; H319

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

4. First-aid measures

4.1 Description of first aid measures

General information

Medical treatment necessary.

After inhalation

No special measures are necessary.

In case of skin contact

Wash immediately with soap in water for 15 minutes. Immediately remove all contaminated clothing. After cleaning apply high-fat content skin care cream.

After eye contact

No special measures are necessary.

After ingestion

Rinse mouth thoroughly with water. Give nothing to eat or drink. Do not induce vomiting. Call a physician in any case!

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions Respiratory complaints.

4.3 Indication of any immediate medical attention and special treatment needed

Observe risk of aspiration if vomiting occurs.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Carbon dioxide (CO₂). Extinguishing powder. Water mist



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Diesel Treatment

Revision date: 15/04/2014

Unsuitable extinguishing media

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

6.2 Environmental precautions

Ensure all waste water is collected and treated via a waste water treatment plant. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Suitable material for taking up: Sand, Kieselguhr, Universal binder Sawdust. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

See protective measures under point 7 and 8.

7. Handling and storage

7.1 Precautions for safe handling

Provide adequate ventilation as well as local exhaust at critical locations. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. All work processes must always be designed so that the following is as low as possible: Eye contact. Skin contact. Inhalation of vapours or spray/mists. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Wear personal protection equipment. (see chapter 8).

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Never use pressure to empty container.

Hints on storage assembly

Keep away from: Oxidising agent Acid. Alkali

Storage class : 10

7.3 Specific end uses

None

8. Exposure controls / Personal protection

8.1 Control parameters

None

8.2 Exposure controls

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protective equipment

Eye / face protection

Eye glasses with side protection

Skin protection





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Diesel Treatment

Revision date: 15/04/2014

Hand protection

Gloves with long cuffs The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection

Overall.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation. insufficient exhaust Handling larger quantities. Container device with compressed air (DIN EN 137). / Filtering device (full mask or mouthpiece) with filter: Filter types:A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

Environmental exposure controls

Send to a hazardous waste incinerator facility under observation of official regulations.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Physical state :	Liquid
Odour :	Characteristic Hydrocarbon
Colour :	Brown
Boiling temperature / boiling range@ 760mmHg/°C :	200 - 250
Flash point (PMcc)/°C :	> 75
Vapour pressure@50°C	< 1000 hPa
Density @15°C/ g/cm ³ :	0.81
Water solubility @20°C:	Insoluble
Viscosity@ 40°C / mm ² /s :	< 7.5

9.2 Other information

pH value	N/A
Ethanol content %:	0

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: Oxidising agent. Strong acid Strong alkali

10.6 Hazardous decomposition products

Decomposition with: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

11. Toxicological information

This mixture is classified as dangerous according to 1999/45/EC. This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

11.1 Information on toxicological effects

Harmful: may cause lung damage if swallowed. For viscosity data, see chapter 9. Repeated exposure may cause skin dryness or cracking. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Acute effects

Acute oral toxicity

Parameter : LD50 (ALKANES, C10-14-ISO- ; EC No : 918-481-9)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Diesel Treatment

Revision date: 15/04/2014

Exposure route :	Oral
Effective dose :	> 10000 mg/kg
Acute dermal toxicity	
Parameter :	LD50 (ALKANES, C10-13-ISO- ; EC No : 918-481-9)
Exposure route :	Dermal
Effective dose :	> 3160 mg/kg
Acute inhalation toxicity	
Parameter :	LC50 (SOLVENT NAPHTA (PETROLEUM), HEAVY AROMATIC ; CAS No. : 64742-94-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 590 mg/m ³
Exposure time :	4 h

12. Ecological information

12.1 Toxicity

Aquatic toxicity

Harmless to aquatic organisms up to the tested concentration

Acute (short-term) algae toxicity

Parameter :	EC50 (SOLVENT NAPHTA (PETROLEUM), HEAVY AROMATIC ; CAS No. : 64742-94-5)
Species :	Algae
Effective dose :	1 - 3 mg/l
Exposure time :	72 h
Parameter :	EC50 (SOLVENT NAPHTA (PETROLEUM), HEAVY AROMATIC ; CAS No. : 64742-94-5)
Species :	Daphnia
Effective dose :	3 - 10 mg/l
Exposure time :	48 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

12.6 Other adverse effects

The evaluation was carried out according to the calculation method of the preparation directive.

12.7 Further ecological information

None

13. Disposal considerations

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Clean IBCs or drums at approved facility only. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

14. Transport information

14.1 UN number

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

Land transport (ADR/RID)



Revision date: 15/04/2014

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
Diesel Treatment

Not subject to ADR/RID.

Class(es) : -

Sea transport (IMDG)

Not subject to IMDG code.

Class(es) : -

Air transport (ICAO-TI / IATA-DGR)

Not subject to IATA regulations.

Class(es) : -

14.4 Packing group

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards

No dangerous good in sense of this transport regulation.

14.6 Special precautions for user

None

15. Regulatory information

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

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
44	Risk of explosion if heated under confinement.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
66	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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