

**Safety Data Sheet according to Regulation (EC) No.  
1907/2006 (REACH) Lead Replacement**

Revision date: 15/04/2014

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

**1.1 Product identifier**

SILVERHOOK Lead Replacement

**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**

Beal UK Ltd  
Sterling Works,  
Texas Street, Tingley  
Leeds LS27 0HG  
t: 0113 253 8888  
f: 0800 357 650  
e-mail: quality@beal.org.uk  
www.beal.org.uk

**1.4 Emergency Telephone Number**

+44 113 253 8888 (available during office hours 8:30 - 17:00)

**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)

May be fatal if swallowed and enters airways.

**Signal word**

Danger

**Hazard Statements**

**Precautionary statements**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do not induce vomiting.

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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

Weight fraction : 50 - 100 %  
Classification 67/548/EEC : Xn ; R65  
Classification 1272/2008 [CLP] : Asp.Tox. 1 ; H304

HYDROCARBONS,C10-13,n-ALKANES, <2% AROMATIC; REACH registration No: n/a ; EC No : 918-481-9; CAS No. :

Weight fraction : 2-3 %  
Classification 67/548/EEC : Xn ; R65 R66  
Classification 1272/2008 [CLP] : Asp.Tox. 1 ; H304

PHENOL (DIMETHYLAMINO)METHYLPOLYISOBUTYLENE DERIVATIVES EC No POLYMER

Weight fraction : 1.5 – 3 %  
Classification 67/548/EEC : Xn ; R52/53  
Classification 1272/2008 [CLP] : Aquatic Chronic 3 ; H412

HYDROCARBONS, C10, AROMATICS ; EC No : 919-284-0-8

Weight fraction : < 1 %  
Classification 67/548/EEC : N ; R51/53 Xn ; R65 R67 R66  
Classification 1272/2008 [CLP] : Asp.Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

**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**

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 (CO<sub>2</sub>). Extinguishing powder. Water mist

### 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 (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>)

## 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



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## 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/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (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 :	Light 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 <sup>3</sup> :	0.80
Water solubility @20°C:	Insoluble
Viscosity@ 40°C / mm <sup>2</sup> /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 (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

## 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)

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

## 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)

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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)**

H304 May be fatal if swallowed and enters airways

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects.

H412 May cause long lasting harmful effects to aquatic life.

H413 Harmful to aquatic life with long lasting effect

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

**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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