

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

1.1 Product identifier UNDER SEAL SCHUTZ 1L Ref: SGUS2

Other means of identification:

Non-applicable

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

Relevant uses: Bitumen coating

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SILVERHOOK LTD.

Unit 14 Bates Road

Harold Wood London RM3 0JH

Tel.: + 44 (0)1708330500

Fax.: + 44 (0)1708330504

Email: 333@silverhook.co.uk

Responsible person E-mail: 333@silverhook.co.uk

1.4 Emergency telephone number: + 44 01708300500 (during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation.

Flam. Liq. 3: Flammable liquids, Category 3, H226

STOT SE 3: May cause drowsiness or dizziness, H336

Aquatic Chronic 3: Harmful to aquatic life with long last effects, H412

2.2 Label elements:

GB CLP Regulation:

Danger



Hazard statements:

Flam. Liq. 3: Flammable liquids, Category 3

STOT SE 3: May cause drowsiness or dizziness

Aquatic Chronic 3: Harmful to aquatic life with long last effects

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

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

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

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards:

Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixtures

Identification	Chemical name/Classification	Concentration
CAS: 8052-42-4	Asphalt Substance with a community workplace exposure limit	25 - <50 %
CAS: 64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% Aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	10-<25%
CAS: 128601-23-0	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	10-<25%
CAS: 64-17-5	Ethanol Flam. Liq. 2, H225	1-<2.5%
CAS: 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Acute Tox. 3, H331; Asp. Tox. 1, H304	0.1-<1%

To obtain more information on the hazards of the substances consult section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media· **Suitable extinguishing agents:**

- Water haze
- Fire-extinguishing powder
- Carbon dioxide
- Alcohol resistant foam

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

- **Protective equipment:** Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

- Requirements to be met by storerooms and receptacles:** No special requirements.
- Further information about storage conditions:** Keep receptacle tightly sealed.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits	
	Asphalt CAS: 8052-42-4	WEL Short-term
	WEL Long-term	5 mg/m ³

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

DNELs**64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Oral	DNEL Long term-systemic	125mg/kg bw/day (Consumer)
Dermal	DNEL Long-term-systemic	125mg/kg bw/day (Consumer) 208 mg/kg bw/day (Worker)
Inhalative	DNEL Long-term-systemic	185 mg/m ³ (Consumer) 871 mg/m ³ (Worker)

128601-23-0 Hydrocarbons, C9, aromatics

Oral	DNEL Long term-systemic	11mg/kg bw/day (Consumer)
Dermal	DNEL Long-term-systemic	11mg/kg bw/day (Consumer) 25 mg/kg bw/day (Worker)
Inhalative	DNEL Long-term-systemic	32 mg/m ³ (Consumer) 100 mg/m ³ (Worker)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

General ventilation

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2

Protection of hands:

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: 0.5 mm

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses



Tightly sealed goggles

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Body protection:

Use protective suit. (EN-13034/6)

Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).

Limitation and supervision of exposure into the environment

Use a suitable container to prevent environmental contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Non-applicable.
pH-value:	Non-applicable.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	165-181 °C
Flash point:	39 °C
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	0.6 Vol %
Upper:	15 Vol %
Vapour pressure at 20 °C:	5 hPa
Density at 20 °C:	1.04 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 20 °C:	9000 mPas
Kinematic at 40 °C:	3800 mm ² /s
Solvent content:	
Organic solvents:	42.9 %
Solids content:	55.6 %

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According to UK REACH

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

<u>Acute Toxicity</u>		<u>Genus</u>	
Oral	LD50 >5000 mg/kg	(Rat)	(Acute Oral Toxicity)
Dermal	LD50 3160 mg/kg	(Rabbit)	(Acute Dermal Toxicity)
Inhalative	LC50 (4h) >5000mg/l	(Rat)	

128601-23-0 Hydrocarbons, C9, aromatics

<u>Acute Toxicity</u>		<u>Genus</u>	
Oral	LD50 3492 mg/kg	(Rat)	
Dermal	LD50 >3160 mg/kg	(Rabbit)	
Inhalative	LC50 (4h) >6193 mg/l	(Rat)	(Acute Inhalation Toxicity)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitivity: Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity**Aquatic toxicity:****64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

EL0 (48h)	1000mg/l (Daphnia magna)
NOELR (72h)	100mg/l (Pseudokirchneriella subcapitata)
EL50 (72h)	>1000mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	>1000mg/l (Onc)

128601-23-0 Hydrocarbons, C9, aromatics

NOELR (72h)	1mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	3.2mg/l (Daphnia magna)
LL50 (96h)	9.2mg/l (Oncorhynchus mykiss)

12.2 Persistence and degradability:

Not easily biodegradable

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

Ecotoxicological effects:**Remark:** Harmful to fish**Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number**ADR, ADN, IMDG, IATA**

UN1139

14.2 UN proper shipping name**ADR, ADN****IMDG, IATA**UN1139 COATING SOLUTION
COATING SOLUTION**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class
Label**3 Flammable
3**ADN****ADN/R Class:**

3 Flammable liquids.

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SECTION 14: TRANSPORT INFORMATION (continued)

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Yes

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS Number: F-E,S-E

Stowage Category A

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category 3

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 1000ml

UN "Model Regulation": UN 1139 COATING SOLUTION, 3, III

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients are listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t

National regulations:

Breakdown regulations:

Class Share in %

NK 25-<50

VOC-CH 42.87 %

VOC-EU 445.9 g/l

Danish MAL Code 5-6

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Physical and chemical properties: The classification is based on the results of the mixtures tested.

Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

Department issuing SDS:

Research & Development

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered. ***