

1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifiers

Product Name: **Heating Oil for WSB Units**

Product code: OCON-316

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

Identified uses: Heat transfer fluid.

Uses advised against: This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheet

Manufacturer: Logitech Ltd
Erskine Ferry Road
Old Kilpatrick
Glasgow
G60 5EU
Scotland, UK

Telephone +44 (0) 1389 875444
E-mail coshh.info@logitech.uk.com

Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This material is a mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Aspiration hazard Category 1 H304 May be fatal if swallowed and enters airways.

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Symbol(s) Xn - Harmful
Risk phrase(s) R65 - Harmful: may cause lung damage if swallowed.

Label elements

Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Pictogram (s):



Signal Word: **DANGER**

Hazard Statements

May be fatal if swallowed and enters airways

Precautionary Statements

Do NOT induce vomiting
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Symbol:



Indication of Danger: HARMFUL
Risk phrases: Harmful: may cause lung damage if swallowed
Safety phrases: Do not breathe fumes/vapour/spray
Avoid contact with skin
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

Other Hazards

Slightly irritating to respiratory system.

Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache and nausea.

Although not classified as flammable, heating (including welding or cutting operations) can produce oil vapour / mist that can form an explosive mixture with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture.

Hazardous substances present at or above threshold limits:

Component	CAS No.	EC No.	%
Kerosine (petroleum), hydrodesulphurised	64742-81-0	265-184-9	0 - 100
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xn, HARMFUL R65 Harmful: may cause lung damage if swallowed			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Aspiration toxicity Category 1 H304 May be fatal if swallowed and enters airways.			
Kerosine	8008-20-6	232-366-4	0 -100
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Xn, HARMFUL R65 Harmful: may cause lung damage if swallowed			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Aspiration toxicity Category 1 H304 May be fatal if swallowed and enters airways.			

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove from source of exposure.

Inhalation

Inhalation of liquid into lungs – seek immediate (emergency) medical attention

Inhalation of vapour / mist. Remove from exposure to fresh air. If difficulty breathing, or irritation experienced, seek medical advice

Ingestion

DO NOT induce vomiting. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Skin contact

Wash area with soap and water then rinse thoroughly with water. If person experiences continued irritation seek medical advice.

Remove contaminated clothing and launder before re-use.

Eye contact

Wash out with plenty of water. After initial flushing, remove any contact lenses and continue flushing.

Seek medical advice in the event of continued irritation or other complaints.

Most important symptoms and effects, both acute and delayed

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure.

Indication of any immediate medical attention and special treatment needed

Seek immediate (emergency) medical attention if material is suspected of having entered the lungs.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water spray, alcohol resistant foam, dry extinguishing powder, carbon dioxide

Unsuitable extinguishing media: Water jet (may cause splashing / foaming of burning material)

Special hazards arising from the substances or mixture

Product is based on organic materials. Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

Advice for fire fighters

Product floats on water.

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Vapours are heavier than air and can travel along the ground. Minimise contact with skin – wear chemically impervious gloves (rubber, nitrile, PVC etc) when handling the material.

Avoid breathing fumes / vapour / mist. Ensure good ventilation or wear a respirator.

Environmental precautions

Do not allow to contaminate rivers, streams, other waterways, drains, soil or the remaining environment.

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to contain the spillage and prevent environmental contamination.

Advise local authorities immediately if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to soak up the spillage. Sweep or scrape the absorbed material into a sealable storage container. Treat residues as flammable.

Remove final residues with a water / detergent mixture, running the water to foul sewer (NOT surface water drains) or allow to evaporate naturally (provided there are no ignition sources present)

Reference to any other sections

See section 8 for Personal Protective Equipment (PPE)
See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:

Minimise skin contact. Do not allow repeated or prolonged skin contact (this may lead to skin conditions including dermatitis).
Clean contaminated skin with soap and water. Do NOT use solvents.
Avoid breathing vapour / mist. Provide adequate ventilation or extraction if significant vapour / mist generated.

Conditions for safe storage, including any incompatibilities

This material will damage / soften / dissolve various plastics including Polyethylene (PE, HDPE), Polypropylene (PP), Polymethyl methacrylate (PMMA), Acrylonitrile butadiene styrene (ABS).
Do not use these materials for storage.

Specific end use(s)

None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

There is no UK Workplace Exposure Limit (WEL) for this material.
As with all materials, exposure should be minimised. Provide ventilation or extraction if significant vapour /mist is generated.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available

Exposure controls

Appropriate engineering controls

Design equipment to prevent repeated or prolonged skin exposure.

Personal protective equipment

If PPE is necessary to control exposure use the following:

Respiratory protection	If significant oil vapour / mist generated (or irritation is experienced) use an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance
Hand protection	Chemically impervious gloves suitable for use with kerosene / paraffin e.g. Nitrile gloves. Follow manufacturer recommendations on inspection and replacement.
Skin protection	Long sleeved clothing. Replace contaminated clothing before skin contact with oil occurs.
Eye protection	EN approved goggles or face shield if eye contact likely .

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	Colourless to pale yellow liquid
Odour:	Mild, petroleum
Odour threshold:	information not available

pH:	information not available
Melting point:	information not available
Boiling point:	150 – 300 °C
Flash point:	>38 °C (Abel)
Evaporation rate	information not available
Flammability	information not available
Upper/lower explosive limits	Upper – 6% available Lower – 1%
Vapour pressure	< 0.1 hPa at 20 °C
Vapour density	information not available
Density	0.77 – 0.84 g/cm ³ @ 15 °C
Solubility in water:	Insoluble in water.
Solubility in other	
Ingredients:	information not available
Partition coefficient	
Octanol/water:	2 – 6 (log Pow)
Auto-ignition temperature	> 220 °C
Decomposition temperature	information not available
Viscosity	1 - 2 mm ² /s at 40 °C
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

Other information

No additional data available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

No hazardous reactions known

Conditions to avoid

ignition sources

Incompatible materials

Strong oxidising agents

Hazardous decomposition products

Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Based on the properties of the main components: Oral: LD 50 (rat): >2000 mg / kg Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Dermal: LD 50 (rabbit): >2000 mg / kg Inhalation: LC 50 (rat): >5 mg/L /4 hr High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. Continued inhalation may result in unconsciousness and/or death.
Irritation	Expected to be irritating to the skin. Expected to be slightly irritating to eyes and respiratory tract
Corrosively	no data available
Sensitisation	Not a skin sensitiser.
Repeated dose toxicity	Kidney: caused kidney effects in male rats which are not considered relevant to humans

Carcinogenicity	Not classified as carcinogenic Repeated skin contact has resulted in irritation and skin cancer in animals.
Mutagenicity	Not considered a mutagenic hazard.
Toxicity for reproduction	Not classified as a developmental toxicant.

Other information

No data available

12. ECOLOGICAL INFORMATION

Toxicity

Based on information for the main components:

Acute toxicity for fish	Toxic: LL/EL/IL50 > 1 <= 10 mg/l
Acute toxicity for crustacea	Toxic: LL/EL/IL50 > 1 <= 10 mg/l
Acute toxicity for algae	Toxic: LL/EL/IL50 > 1 <= 10 mg/l

Persistence and biodegradability

Expected to be biodegradeable.

Bioaccumulative potential

Contains constituents with the potential to bioaccumulate.

Mobility in Soil

Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces.

Results of PBT and vPvB assessment

Data not available

Other adverse effects

Data not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Dispose of product as hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.
The European Waste Code will depend upon the use of the product and cannot be specified here

Packaging

Clean packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue). Recycle such waste wherever possible.
Contaminated packaging / containers must be disposed of as hazardous waste
Containers previously used to store this product that are now free of the product (residues will evaporate) can be disposed of as general (non-hazardous) waste. Recycle such containers where possible.

14. TRANSPORT INFORMATION

UN number

1223

	ADR/RID	IMDG	IATA
UN proper shipping name	KEROSINE	KEROSINE	KEROSINE
Transport hazard class(s)	3	3	3
Packing group	III	III	III

Environmental hazards

IMDG Marine pollutant: Yes

Special precautions for user

None identified

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')

Regulation (EU) No 453/2010.

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

None identified

Chemical safety assessment

A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION**Changes from previous version (version 2):**

- a) Section 2 Labelling information now provided in accordance with both CHIP and CLP regulations

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.