

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: INDUSTRIAL HEATING OIL (IHO)

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

Use of substance / mixture: For use as heating fuel.

1.3. Details of the supplier of the safety data sheet

Company name: CROWN OIL LTD
THE OIL CENTRE
BURY NEW ROAD
HEAP BRIDGE
BURY
BL9 7HY

Email: technical@crownoil.co.uk

1.4. Emergency telephone number

Emergency tel: 0161 7646622

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT RE 2: H373; Acute Tox. 3: H331; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Carc. 2: H351; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H336

Most important adverse effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Signal words: Danger

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Hazard pictograms: GHS02: Flame
GHS08: Health hazard
GHS09: Environmental
GHS07: Exclamation mark



Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241: Use explosion-proof electrical/ventilating/lighting/.. equipment.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P302+352: IF ON SKIN: Wash with plenty of water/.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HIGH FLASH DISTILLATE.

EINECS	CAS	PBT / WEL	CLP Classification	Percent
271-240-3	68526-92-1	-	Asp. Tox. 1: H304	<50%

ATMOSPHERIC DISTILLATE

269-822-7	68334-30-5	-	Acute Tox. 4: H332; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Carc. 2: H351; STOT RE 2: H373; Asp. Tox. 1: H304	<50%
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VACUUM GAS OIL

265-156-6	64742-53-6	-	Asp. Tox. 1: H304	<50%
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DISTILLATE.

232-366-4	8008-20-6	-	STOT SE 3: H336; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315	<50%
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Contains: Low viscosity hydrocarbons.

Section 4: First aid measures

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4.1. Description of first aid measures

- Skin contact:** Wash thoroughly with soap and water or a recognised skin cleanser. Remove contaminated clothing and laundry before re-use.
- Eye contact:** Flush eyes with water for several minutes. Remove contact lenses if present. If irritation or blurred vision occurs and persists, obtain medical attention.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
- Inhalation:** Remove victim to fresh air and keep at rest in a comfortable position for breathing. If symptoms occur or if breathing becomes impaired obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be mild irritation at the site of contact.
- Eye contact:** There may be irritation and redness.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water fog. Alcohol or polymer foam. Dry chemical powder. Carbon dioxide. Use water spray to cool containers. DO NOT USE WATER JET.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases including oxides of sulphur and nitrogen, carbon monoxide, carbon dioxide and unidentified organic compounds.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

[cont...]

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6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Steel or stainless steel containers or tanks.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	5mg/m ³	-	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Not normally required, but if needed use a gas/vapour filter, type A:organic vapours (EN141).

Hand protection: Gloves (oil-resistant).

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Oil-resistant protective clothing.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-orange

Odour: Characteristic odour

Evaporation rate: Slow

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Kinematic viscosity: 2.5

Viscosity test method: Kinematic viscosity in 10⁻⁶ m²/s at 40°C (ISO 3104/3105)

Boiling point/range°C: 190

Melting point/range°C: < -15

Flammability limits %: lower: 0.5

upper: 6.0

Flash point°C: 55 - 70

Autoflammability°C: 230

Relative density: 0.830

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

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Hazardous ingredients:

HIGH FLASH DISTILLATE.

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

ATMOSPHERIC DISTILLATE

DERMAL	Mouse	OECD 451 2 yrs	Positive	-
DERMAL	RBT	OECD 404	Irritation	-
EYES	RBT	OECD 405	Non-irritating	-
VAPOURS	RAT	4H LC50	4.1	mg/l

DISTILLATE.

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg
VAPOURS	RAT	4H LC50	>5	mg/l

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

[cont...]

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HIGH FLASH DISTILLATE.

ALGAE	72H ErC50	>100	mg/l
Daphnia magna	48H EC50	Not toxic	-
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l

ATMOSPHERIC DISTILLATE

ALGAE	72H ErL50	78	mg/l
DAPHNIA	48H EL50	68	mg/l
FISH	96H LC50	21	mg/l

DISTILLATE.

ALGAE	96H LC50	10 - 100	mg/l
FISH	96H LC50	10 - 100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: The product has a potential to bioaccumulate.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 05 01 05

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1202

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14.2. UN proper shipping name

Shipping name: DIESEL FUEL

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.