

SAFETY DATA SHEET

Kerosene 1000ppm max sulphur

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Commercial Product Name : Kerosene 1000ppm max sulphur
Use of the Substance/Mixture : Fuel
Company : Nicholl Fuel Oils Limited
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2 HAZARDS IDENTIFICATION

Most important hazards : The product is classified as dangerous in accordance with Directive 67/548/EEC.
Flammable.
Irritating to skin.
Harmful: may cause lung damage if swallowed.

Main symptoms

Inhalation : May cause irritation of respiratory tract.

Skin contact : Irritating to skin.

Eye contact : May be irritating.

Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Environmental properties : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	EC Index	CERTIFICATE
Kerosene (petroleum)	100 %	8008-20-6	232-366-4	649-404-00-4	R10 Xn; R65 Xi; R38 N; R51-53
Full text of R-phrases	: See section 16.				

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4. FIRST AID MEASURES

First aid measures

Inhalation

: Keep at rest.
Move to fresh air.
Oxygen or artificial respiration if needed.
Call a physician immediately.

: *Inhalation may provoke the following symptoms:*

: May cause irritation of respiratory tract.

Skin contact

: Wash off immediately with soap and plenty of water.
Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
If skin irritation persists, call a physician.

: *Skin contact may provoke the following symptoms:*

: Irritating to skin.

Eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

: *Eye contact may provoke the following symptoms:*

: May be irritating.

Ingestion

: Do NOT induce vomiting.
Drink plenty of water.
Never give anything by mouth to an unconscious person.
Consult a physician.

: *Ingestion may provoke the following symptoms:*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Additional advice

: Never give anything by mouth to an unconscious person.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire Hazard

: Flammable

Suitable extinguishing media

: Use dry chemical, CO₂, water spray or alcohol-resistant foam

Extinguishing media which shall not be used for safety reasons

: High volume water jet

Specific hazards

: Evacuate personnel to safe areas.
Vapours may form explosive mixture with air.
Vapours are heavier than air and may spread along floors.
Flash back possible over considerable distance.
The pressure in sealed containers can increase under the influence of heat.
Cool containers / tanks with water spray.
Possible decomposition products are: CO_x, H₂S, SO_x
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters

: Wear personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: See also section 8.
Wear personal protective equipment.
Evacuate personnel to safe areas.

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6. ACCIDENTAL RELEASE MEASURES (continued)

	<p>Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations. Do not smoke. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. Vapours may form explosive mixture with air.</p>
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	: Remove all sources of ignition. Do not use sparking tools. Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Storage	: Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store near or with any of the incompatible materials listed in section 10.
Handling	: See also section 8. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Do not breathe vapours or spray mist. Ensure adequate ventilation. Always replace cap after use. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Ensure all equipment is electrically grounded before beginning transfer operations.
Specific use(s)	: Fuel

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment	
Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment. (type A1/A2/A3/P2; EN 141/136/140/137/143)
Hand protection	: Rubber gloves (EN 374)- Nitrile rubber - PVC disposable gloves The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the gloves supplier.
Eye protection	: Safety glasses (EN166)
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

	Use only in area provided with appropriate exhaust ventilation. Eye wash bottle with pure water Use only in an area equipped with a safety shower.
Environmental exposure controls	: Kerosene (petroleum) : TLV-TWA (mg/m ³) : 200 (Belgium, Spain); 100 (Poland); 250 (UT4, Kraftstoff, Germany) Kerosene (petroleum) : TLV-STEL (mg/m ³) : 300 (Poland)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: yellow
Odour	: petroleum hydrocarbon odour
pH	: no data available
Boiling point/boiling range	: ca 125 - 292°C
Melting point/range	: ca -48 - -26°C
Flash point	: 38°C (EN 2869)
Evaporation rate	: no data available
Vapour density	: no data available
Autoignition temperature	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Vapour pressure	: ca 14 hPa @ 37,8°C
Water solubility	: insoluble
Viscosity	: 1,0 - 2,0 cSt (EN 2869)
Partition coefficient: n-octanol/water	: 3,3 - 6
Density	: ca 0,79 - 0,82 g/cm ³ @ 15°C

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: CO _x , H ₂ S, SO _x
Materials to avoid	: Oxidizing agents
Conditions to avoid	: Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: • Kerosene (petroleum) : LD50/oral/rat = : > 5000 mg/kg • Kerosene (petroleum) : LC50/inhalation/4h/rat = : > 5,28 mg/l • Kerosene (petroleum) : LD50/dermal/rabbit = : > 2000 mg/kg
Inhalation	: May cause irritation of respiratory tract.
Skin contact	: Irritating to skin.
Eye contact	: Contact with eyes may cause irritation.
Ingestion	: Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Chronic toxicity	: No adverse effects are expected.

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12. ECOLOGICAL INFORMATION

Bioaccumulation	: log Pow = 3.3 - 6 May cause bioaccumulation.
Ecotoxicity effects	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Mobility	: insoluble
Persistence and degradability	: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	: Dispose of in accordance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.
Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC)	: Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. The following Waste Codes are only suggestions: 13 07 03* - other fuels (including mixtures) 15 01 10* - packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

Class

ADR/RID	
UN-Number	: 1223
Proper shipping name	: KEROSENE
Class	: 3
Packing group	: III
IMDG	
UN-Number	: 1223
Class	: 3
Packing group	: III
Proper shipping name	: KEROSENE
EmS	: F-E, S-E
ICAO	
UN-Number	: 1223
Class	: 3
Packing group	: III
Proper shipping name	: KEROSENE

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15. REGULATORY INFORMATION

Labelling	: The product is classified as dangerous in accordance with Directive 67/548/EEC. EINECS : 232-366-4
Symbol(s)	: Xn - Harmful N - Dangerous for the environment
R-phrases(s)	: R10 - Flammable. R38 - Irritating to skin. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed.
S-phrase(s)	: S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
Contains	: Kerosene (petroleum)
WGK	: 2

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3	: R10 - Flammable. R38 - Irritating to skin. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed.
Sources of key data used to compile the Safety Data Sheet	: European Chemicals Bureau CONCAWE (July 2005)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 1967/548/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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