

ODC® Drilling Fluid Base Oil

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

Trade name	ODC® Drilling Fluid Base Oil		
Synonyms	Paraffinic Naphthenic Solvent		
Use	Industrial & Institutional cleaning, Industrial use, Lubricant or lubricant additive, Oilfield Drilling		
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
Address	12120 Wickchester Lane Houston TX 77079		
Telephone	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424-9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494-5142
	MSDS and Product Information (8:00am-4:30pm CST)		(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)		(281) 588-3492
E-mail address	SasolElectronicSDS@us.sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

Flammable liquids	Category 4
Aspiration hazard	Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention P210 Keep away from open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/ eye protection/ face protection.

Response P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331 Do NOT induce vomiting.

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Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Distillates, petroleum, hydrotreated light	64742-47-8	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIA combustible liquid.

Suitable extinguishing media Water spray or fog, foam, dry chemical, CO2

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/Transport temperature Ambient

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values., The following Sasol internal standard would apply:., 100 ppm (525 mg/m³) for 8-hour TWA (Exposure limits for Petroleum Distillate - Stoddard Solvent)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour clear

Form liquid

Odour hydrocarbon-like

Odour Threshold no data available

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Flash point	Average 62 °C, 143 °F; ASTM D 56;
Flammability	Upper explosion limit: 7.0 %(V) Lower explosion limit: 0.6 %(V)
Boiling point/boiling range	186 - 264 °C, 367 - 507 °F; ASTM D-86;
Melting point/range	< -68 °C, < -90 °F; ASTM D-2386;
Auto-ignition temperature	223 °C, 434 °F; ASTM E 659;
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapour pressure	0.16 mm Hg @ 20 °C, 68 °F; API Calculation;
Vapour density	5.7
Density	0.806 g/cm ³ @ 20 °C, 68 °F; ASTM D-287;
Specific gravity	no data available
Water solubility	negligible
Viscosity	2.2 cSt @ 20 °C, 68 °F; ASTM D 445;
pH	no data available
Evaporation rate	no data available
Partition coefficient: n-octanol/water	no data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Keep away from heat and sources of ignition.
Hazardous decomposition products	Hazardous gases and vapors produced in fire are oxides of carbon.
Materials to avoid	Oxidizing agents

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Hazardous polymerisation None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50 rabbit: 2,000 - 4,000 mg/kg

Acute inhalation toxicity LC50 rat (1 hours): > 24.1 mg/l
All rats survived at indicated concentration.
LC50 rat (4 hours): > 3.62 mg/l

Acute oral toxicity LD50 rat: > 2,000 mg/kg

Skin corrosion/irritation Primary irritation (rabbit): 4.2 (Max. score is 8.0.)
Not irritating

Eye damage/irritation Primary irritation (rabbit): 1 hours; 5.0 (Max. score is 110.)
Not irritating

Respiratory or skin sensitization no data available

Germ cell mutagenicity **Genotoxicity in vitro:**
no data available
Genotoxicity in vivo:
no data available
Assessment Mutagenicity:
no data available

Reproductive toxicity **Reproductive toxicity:**
no data available
Assessment Reproductive toxicity:
no data available
Teratogenicity:
no data available
Assessment teratogenicity:
no data available

STOT - single exposure no data available

STOT - repeated exposure no data available

Aspiration toxicity May be fatal if swallowed and enters airways.

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Carcinogenicity **Assessment carcinogenicity:**
Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

Toxicity to fish no data available

Toxicity to aquatic invertebrates no data available

Toxicity to algae no data available

Chronic toxicity to fish no data available

Chronic toxicity to aquatic invertebrates no data available

Biodegradation Readily biodegradable.
OECD Test Guideline 301F (28 d): 78 %
Test substance: LPA® Solvent

Bioaccumulation no data available

Mobility in soil no data available

Other adverse effects no data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

Disposal methods Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

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SECTION 14 TRANSPORT INFORMATION

DOT Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)).

IATA Not regulated.

IMDG Not regulated.

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

Remarks no data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)

Combustible liquid.

TSCA Inventory Listing

Components

Distillates, petroleum, hydrotreated light

CAS-No.

64742-47-8

SARA 302 Status

Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CAS-No.

Weight percent

SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical

Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CAS-No.

Weight percent

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

none

Reportable Quantity

Weight percent

INTERNATIONAL REGULATIONS

WHMIS Classification

Class B, Division 3: Combustible liquid.

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European Union

Classification according to Regulation (EU) 1272/2008.

Aspiration hazard, Category 1
Repeated exposure may cause skin dryness or cracking.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	2	0
NFPA	1	2	0

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