

ODC-15 Drilling Fluid Base Oil

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

Trade name	ODC-15 Drilling Fluid Base Oil	
Synonyms	Paraffinic Naphthenic Solvent	
Use	Industrial & Institutional cleaning, Industrial use, 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
	SDS 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

OSHA/GHS Hazards	Flammable liquids	Category 4
	Aspiration hazard	Category 1
	Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.

Precautionary statements

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

ODC-15 Drilling Fluid Base Oil

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271 Use only outdoors or in a well-ventilated area.

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/doctor.
 P331 Do NOT induce vomiting.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.

Storage P403 + P233 + P235 Store in a cool, well ventilated place. Keep container tightly closed.
 P405 Store locked up.

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>
Raffinates (Petroleum), Sorption Process	64741-85-1	90 - 100
Distillates, petroleum, hydrotreated light	64742-47-8	0 - 10

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.

ODC-15 Drilling Fluid Base Oil

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

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).
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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

ODC-15 Drilling Fluid Base Oil

<u>Components</u>	<u>Exposure limit(s)</u>
Benzene	OSHA TWA 1 ppm OSHA STEL (Short Term Exposure Limit) 5 ppm ACGIH TLV (8-hour) 0.5 ppm ACGIH STEL (Short Term Exposure Limit) 2.5 ppm
Benzene, ethyl-	OSHA PEL (Permissible Exposure Limit) 100 ppm ACGIH TLV (8-hour) 20 ppm
Toluene	OSHA TWA 200 ppm OSHA Ceiling 300 ppm ACGIH TLV (8-hour) 20 ppm
Xylene (mixed isomers)	OSHA PEL (Permissible Exposure Limit) 100 ppm 435 mg/m ³ ACGIH TLV (8-hour) 100 ppm ACGIH STEL (Short Term Exposure Limit) 150 ppm
Internal standard	The following Sasol internal standard would apply: 100 ppm (525 mg/m ³) for 8-hour TWA (Exposure limits for Petroleum Distillate - Stoddard Solvent).

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	clear
Form	liquid
Odour	hydrocarbon-like
Odour Threshold	No data available
Flash point	Average 64 °C, 148 °F; ASTM D 56;
Flammability	Upper explosion limit: 7.0 %(V) Lower explosion limit: 0.6 %(V)
Boiling point/boiling range	191 - 258 °C, 376 - 496 °F; ASTM D-86;
Melting point/range	< -68 °C, < -90 °F; ASTM D 97-66;

ODC-15 Drilling Fluid Base Oil

Auto-ignition temperature	229 °C, 445 °F; ASTM E 659;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.23 psi Reid (D-323);
Vapour density	5.7
Density	0.812 g/cm ³ @ 20 °C, 68 °F; ASTM D-4052;
Specific gravity	No data available
Water solubility	negligible
Viscosity	1.6 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
Hazardous polymerisation	None.

ODC-15 Drilling Fluid Base Oil

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50: > 2,000 mg/kg

Acute inhalation toxicity Rat (4 hours): > 5 mg/l
All rats survived at indicated concentration.

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

Skin corrosion/irritation Primary irritation (Rabbit): 2.62 (Max. score is 8.0.)
Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation Primary irritation (Rabbit): 3.3 (Max. score is 110.)
Not irritating

Respiratory or skin sensitisation No data available

Germ cell mutagenicity **Genotoxicity in vitro:**
No data available

Genotoxicity in vivo:
No data available

Assessment Mutagenicity:
This substance or mixture is not classified as a germ cell mutagen.

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 May cause drowsiness or dizziness.

STOT - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity May be fatal if swallowed and enters airways.

Carcinogenicity **Assessment carcinogenicity:**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ODC-15 Drilling Fluid Base Oil

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity	Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.
Toxicity to fish	LL50 (Pimephales promelas (fathead minnow)) 96 hours: 16 % The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to aquatic invertebrates	LL50 (Daphnia pulex (Water flea)) 48 hours: 7.3 % The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to algae	EL50 (Scenedesmus capricornutum (green algae)) 96 hours: 31.6 %; The product has low solubility in the test medium. An aqueous dispersion was tested.
Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	No data available
Biodegradation	Readily biodegradable. OECD Test Guideline 301F (28 d): > 60 %
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code	D018 (TC Benzene) RQ = 10 lbs. This product has the RCRA characteristic of toxicity. 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.
Disposal methods	Dispose of only in accordance with local, state, and federal regulations. Land disposal of this product is restricted. Do not contaminate any lakes, streams, ponds, groundwater or soil.

ODC-15 Drilling Fluid Base Oil

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.

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

TSCA Inventory Listing

Components

Raffinates (Petroleum), Sorption Process

Distillates, petroleum, hydrotreated light

CAS-No.

64741-85-1

64742-47-8

SARA 302 Status

Components

CAS-No.

Weight percent

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

SARA 311/312 Classification

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

SARA 313 Chemical

Components

Xylene (mixed isomers)

CAS-No.

1330-20-7

Weight percent

<= 750 PPM

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Benzene

Benzene, ethyl-

Toluene

Xylene (mixed isomers)

Reportable Quantity

10 LB

1,000 LB

1,000 LB

100 LB

Weight percent

<= 5 PPM

<= 20 PPM

<= 20 PPM

<= 750 PPM

ODC-15 Drilling Fluid Base Oil

INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids	Category 4
Aspiration hazard	Category 1
Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

European Union

Classification according to Regulation (EU) 1272/2008.

Aspiration hazard, Category 1
 Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)
 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. ISHL - Inventory of Chemical Substances	Not listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico	Not listed
New Zealand. Inventory of Chemical Substances	Listed
Switzerland	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Not 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
 Benzene
 Benzene, ethyl-

CAS-No.
 71-43-2
 100-41-4

ODC-15 Drilling Fluid Base Oil

Toluene

108-88-3

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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