

MATERIAL SAFETY DATA SHEET
ORS-41HF

SECTION 1 - IDENTIFICATION

Oil Chem Technologies
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Sugar Land, TX 77478

EMERGENCY TELEPHONE NUMBERS

INFOTRAC 1-800-535-5053

Trade Name: ORS-41HF
Chemical Family: SURFACTANT

SECTION 2 – HAZARDS IDENTIFICATION

NFPA Hazard Rating Scale:

HEALTH: 1 FIRE: 1 REACTIVITY: 0

(Degree of hazard: 4=severe, 3=serious, 2=moderate, 1=slight, 0=minimal)

HEALTH HAZARDS:

SKIN: Irritant, may cause temporary redness, mild local irritation and sensitization. Repeated or prolonged contact with skin may cause dermatitis. May be harmful if absorbed through skin.

EYES: Irritant, may cause burning, redness, and pain.

INGESTION: Harmful if ingested. May cause headaches, nausea, dizziness and other symptoms of central nervous depression.

INHALATION: Respiratory irritation, central nervous depression, and possible damage to the kidney and liver.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS No.	% by Weight
ethylene glycol butyl ether	111-76-2	14 – 25
Other Components	CAS No.	% by Weight
Alkylbenzene sulfonic acid, sodium salt (C12-18 and C19-28)	70892-46-5 and 70024-73-6	50-60
Sodium Sulfate	7757-82-6	0-2.0
Water	7732-18-5	Remainder

SECTION 4 – FIRST-AID MEASURES

INGESTION:	If victim is conscious and able to swallow, have the victim drink water to dilute. Never give anything by mouth if victim is unconscious or having convulsion. Induce vomiting only if advised by a physician or poison control center. Call a physician or poison control center immediately.
INHALATION:	Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. When breathing is difficult, properly trained personnel may assist the affected person by administering oxygen. Keep the affect person warm and at rest. Get medical attention immediately.
SKIN:	Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water. If irritation persists after washing, seek medical attention. Thoroughly clean contaminated clothing before reuse; discard contaminated leather goods (gloves, shoes, belts, wallets, etc.)
EYES:	Immediately flush with large quantities of water for at least 15 minutes, occasionally lifting the upper and lower eyelids, and call a physician.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point, F & Method >200°F PMCC	Flammable Limits: NA	LEL,% ND UEL,% ND
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FIRE HAZARDS:

This material may burn, but it does not readily ignite.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

EXTINGUISHING MEDIA:

Drychemical or waterspray or waterfog or CO2 or foam or Sand/Earth

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Avoid all ignition sources such as flames and sparks. Insure good ventilation. if volume is significant, transfer into containers for disposal. Seal containers tightly. Absorb on an inert ingredient such as earth, sand or vermiculite. Sweep up and dispose of according to Federal, State and local regulations.

SECTION 7 – HANDLING AND STORAGE

Recommended Storage Temperatures: 5 to 32°C (45 to 90°F).

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection (Specify Type): Use NIOSH approved respirator if PEL is exceeded.

Ventilation: General or local mechanical exhaust

Protective Gloves: Rubber or plastic, solvent resistant

Eye Protection: Chemical Safety Goggles/Safety Glasses

Other protection: Coveralls, Splash Aprons, Eye Wash, and Safety Shower

Work/Hygienic Practices: Clean up spills promptly, wash contaminated clothing

Special: Use SCBA when entering tanks

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Boiling Point, F:	ND	Specific Gravity (H ₂ O=1):	1.03 typical
Vapor Pressure (mm Hg):	ND	Evaporation Rate:	ND
Vapor Density (Air=1):	ND	(butyl acetate=1)	
pH:	8-10	Viscosity:	> 100 cps
Solubility in Water:	Soluble		
Appearance and Odor:	Clear to slightly hazy amber liquid		

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: STABLE

Hazardous Decomposition/Byproducts: Carbon monoxide and carbon dioxide from burning.
Oxides of sulfur.

Hazardous Polymerization: Will not occur

Incompatible Materials: Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity: NO NTP: ND IARC: ND OSHA Regulated: NO

Toxicity to Animals:

Data for Component: Ethylene glycol monobutyl ether

Ingestion

LD50, Rat 470 - 3,000 mg/kg

Skin Absorption

LD50, Rat 2,270 mg/kg

LD50, Rabbit 99 - 610 mg/kg
 LD50, Guinea pig > 2,000 mg/kg

Inhalation

LC50, 7 h, Vapor, Rat 700 ppm

Chronic Effects on Humans:

Data for Component: Ethylene glycol monobutyl ether

In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans. If the material is handled in accordance with proper industrial handling procedures, exposures should not pose a carcinogenic risk to man.

Repeated Dose Toxicity

Data for Component: Ethylene glycol monobutyl ether

In animals, effects have been reported on the following organs: blood (hemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

SECTION 12 – ECOLOGICAL INFORMATION

Persistence and Degradability

Material slowly biodegrades under aerobic conditions of secondary wastewater treatment systems. The product's biodegradation rate does not meet the criteria to be classified as a biodegradable substance.

Ecotoxicity

The product is expected to be moderately toxic to aquatic organisms.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE INFORMATION

Waste must be disposed in accordance with federal, state, and local environmental control regulations.

SECTION 14 – TRANSPORT INFORMATION

Hazard Classification: NOT-REGULATED

Labels Required: NONE

DOT ER Guide No.: NONE

UN/NA No.: NONE

Proper Shipping Name/Description:

NOT REGULATED

DOT RQ in lbs: NA

DOT RQ in gal: NA

Flash Point, F: >200°F

pH: 8-10

Pkg. Group: NONE

IMDG Pg.No.: NONE

SECTION 15 – REGULATORY INFORMATION

U.S. Toxic Substances Control Act (TSCA) Information

The component(s) of this product are listed on the TSCA Chemical Substances Inventory.

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

This product contains the following chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (the corresponding CAS number and percent by weight are also provided):

Component	CAS #	Amount
Ethylene glycol monobutyl ether	111-76-2	15- 30%

SECTION 16 – OTHER INFORMATION

Abbreviations: NA=not applicable, ND=not determined, NE=not established

Last Revision: 20080109

This information is based on data believed by Oil Chem Technologies to be accurate, but no warranty, expressed or implied, is made.