

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: ORS Series**

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NFPA HAZARD INDEX	NFPA HAZARD RATING
4 - Severe	Toxicity .....1
3 - Serious	Fire.....3
2 - Moderate	Reactivity.....0
1 - Slight	Special
0 - Insignificant	

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## CHEMICAL AND PHYSICAL PROPERTIES ----SECTION I

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Chemical Name:

Proprietary blends

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.  
oxides of sulfur

Incompatibility (keep away from):

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

Toxic and Hazardous Ingredients:

	<u>%</u>	<u>CAS #</u>
isopropyl alcohol	14-20	27-63-0
ethylene glycol	4-6	307-21-1

Appearance: clear liquid to slightly hazy amber liquid

Odor: solvents

Specific Gravity (water=1): 1.02

Boiling Point: no data available

Solubility in Water: (10 %): dispersible

Volatile (by weight %): 36-50

Vapor Pressure (mm Hg at 20° C): nda

pH(5%): 8 to 10

Stability: Product is stable under normal conditions

Viscosity SUS at 100°F: less than 100 cps

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## FIRE AND EXPLOSION DATA ---- SECTION II

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Special Fire Fighting Procedures:

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

Unusual Fire and Explosion Hazards:

Flash Point: (Method Used) Pensky-Martens closed-cup 53° F

Extinguishing agents:

Drychemical or waterspray or waterfog or CO<sub>2</sub> or foam or Sand/Earth

HEALTH HAZARD DATA ---- SECTION III

Permissible concentrations (air):

isopropyl alcohol: 400 ppm, 980mg/m<sup>3</sup> (OSHA/ACGIH): STEL: 500 ppm, 1225 mg/m<sup>3</sup>(OSHA/ACGIH)

ethylene glycol: 50 ppm, 125 mg/m<sup>3</sup> ceiling (OSHA/ACGIH)

Chronic effects of over exposure:

isopropyl alcohol: irritation of eyes, nose, throat; headache, nausea, and dizziness.

for ethylene glycol: ingestion: abdominal disturbance, CNS depression, respiratory and renal problems; skin and eye irritation

Acute toxicological properties:

isopropyl alcohol : Irritation of eye, may cause corneal damage. Inhalation may cause irritation of nose and throat, headache, nausea, dizziness, drowsiness, irritation of upper respiratory tract, narcosis, central nervous system depression, difficult breathing, pulmonary edema and unconsciousness. Contact with eye may cause corneal damage. Rapid skin absorption and ingestion may cause headache, nausea, vomiting, dizziness, gastrointestinal irritation, narcosis, central nervous system depression and unconsciousness. The liquid can defat the skin, producing a dermatitis characterized by drying and fissuring.

Ethylene glycol: acute oral LD<sub>50</sub> 4700 mg/kg (rat): human lethal dose 1500 mg/kg

Emergency First Aid Procedures:

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician.

Skin Contact: Flush with large amounts of water for 15 minutes.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and call a physician

If Swallowed: Call a physician immediately.

SPECIAL PROTECTION INFORMATION ----SECTION IV

Ventilation Type Required (Local, mechanical, special):

Local if necessary to maintain allowable PEL (permissible exposure limit) or TLV(threshold limit value)

Respiratory Protection (Specify type):

Use NIOSH/MSHA certified respirator with organic vapor cartridge if vapor concentration exceeds permissible exposure limit

Protective Gloves:

rubber or plastic, solvent resistant

Eye Protection:

chemical safety goggles

Other Protective Equipment: none

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## HANDLING OF SPILLS OR LEAKS ----SECTION V

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### Procedures for Clean-Up:

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.

### Waste Disposal:

Dispose of in accordance with all applicable federal, state and local regulations.

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## SPECIAL PRECAUTIONS ---- SECTION VI

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### Precautions to be taken in handling and storage:

Store between 40° F and 90° F

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## TRANSPORTATION DATA ----SECTION VII

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D.O.T.: Regulated

U.S.D.O.T. Proper Shipping Name: Flammable liquid, n.o.s. (isopropanol )

U.S.D.O.T. Hazard Class: 3 (flammable liquid)

I.D. Number: UN 1993 PG II

Label (s) Required: Flammable liquid

Reportable quantity:

Freight Classification: Oil Well Treating Compound

Special Transportation Notes: none

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## ENVIRONMENTAL/SAFETY REGULATIONS----SECTION VIII

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### Section 313 (Title III Superfund Amendment and Reauthorization Act):

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):

ethylene glycol 107-21-1      4-6%

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