



## Material Safety Data Sheet

# PRO SCALE CLEAR-112

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### 1. Product and Company Identification

<b>Material name</b>	<b>PRO SCALE CLEAR-112</b>
<b>Version #</b>	10
<b>Revision date</b>	January-04-2012
<b>CAS #</b>	Mixture
<b>Manufacturer information</b>	Weatherford® International Ltd. 515 Post Oak Blvd. Suite 600 Houston, TX 77027 United States Weatherford +1-713-693-4000
<b>Supplier information</b>	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
<b>Supplier emergency telephone number(s)</b>	24hr customer Service 740-454-6253

### 2. Hazards Identification

<b>Emergency overview</b>	CAUTION  May cause irritation to the eyes, skin, and respiratory system. Prolonged exposure may cause chronic effects. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin. Harmful if swallowed.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Eyes</b>	Contact with eyes may cause irritation. Do not get this material in contact with eyes.
<b>Skin</b>	Contact with skin may cause irritation. Do not get this material in contact with skin.
<b>Inhalation</b>	May cause irritation of respiratory tract. Do not breathe dust/fume/gas/mist/vapors/spray. Prolonged inhalation may be harmful.
<b>Ingestion</b>	Harmful if swallowed. Do not ingest. May cause delayed lung damage. May cause stomach distress, nausea or vomiting. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Central nervous system. Eyes. Lungs. Respiratory system. Skin.
<b>Chronic effects</b>	Shortness of breath. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
<b>Signs and symptoms</b>	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioral changes. Cough.



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**Potential environmental effects**

May cause long-term adverse effects in the environment.

**3. Composition / Information on Ingredients**

Components	CAS #	Percent
Ethylene Glycol	107-21-1	20 - 40

**4. First Aid Measures**

**First aid procedures**

- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
- Skin contact** Wash off with soap and water. Get medical attention if irritation develops or persists.
- Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
- Ingestion** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

**Notes to physician**

Symptoms may be delayed.

**General advice**

Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**5. Fire Fighting Measures**

**Flammable properties**

Not combustible by OSHA criteria.

**Extinguishing media**

- Suitable extinguishing media** Water. Water spray. Water fog. Alcohol foam. Polymer foam. Dry chemical powder. Carbon dioxide (CO2).
- Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters**

**Specific hazards arising from the chemical** Fire may produce irritating, corrosive and/or toxic gases.

**Protective equipment and precautions for firefighters** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire fighting equipment/instructions**

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

**Specific methods**

In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. In the event of fire, cool tanks with water spray.





## 6. Accidental Release Measures

### Personal precautions

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.

### Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

Clean up in accordance with all applicable regulations.

### Other information

## 7. Handling and Storage

### Handling

Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged exposure.

### Storage

Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethylene Glycol (107-21-1)	TWA	100 mg/m <sup>3</sup>	Aerosol.

### Engineering controls

Provide adequate ventilation.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Skin protection

Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Protective gloves. Impervious gloves.

#### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### General hygiene considerations

When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

### Appearance

Clear

### Physical state

Liquid.



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<b>Form</b>	Liquid.
<b>Color</b>	Yellow
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	7 - 9
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	27.32 °F (-2.6 °C) estimated
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	1.16 - 1.19
<b>Relative density</b>	Not available.
<b>Flash point</b>	> 200 °F (> 93.3 °C)
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>VOC</b>	20 % estimated
<b>Percent volatile</b>	75 % estimated
<b>Other data</b>	
<b>Density</b>	0.998 g/cm <sup>3</sup> estimated
<b>Flash point class</b>	Combustible IIIB

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Amines. Isocyanates. Strong oxidizing agents. Strong acids. Caustics.
<b>Hazardous decomposition products</b>	Not available.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

#### Product

PRO SCALE CLEAR-112 (Mixture)

#### Test Results

Acute Dermal LD50 Rabbit: 47650 mg/kg estimated

Acute Oral LD50 Mouse: 73 g/kg estimated

Acute Oral LD50 Rat: 20000 mg/kg estimated

Acute Oral LD50 Rat: 29.45 g/kg estimated

Acute Other LD50 Mouse: 29 g/kg estimated

Acute Other LD50 Rat: 14000 mg/kg estimated



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## Components

Ethylene Glycol (107-21-1)

## Test Results

Acute Dermal LD50 Rabbit: 9530 mg/kg

Acute Oral LD50 Cat: 1650 mg/kg

Acute Oral LD50 Dog: 5500 mg/kg

Acute Oral LD50 Dog: > 8.81 g/kg

Acute Oral LD50 Guinea pig: 8.2 g/kg

Acute Oral LD50 Mouse: 14.6 g/kg

Acute Oral LD50 Rat: 4000 mg/kg

Acute Oral LD50 Rat: 5.89 g/kg

Acute Other LD50 Mouse: 5.8 g/kg

Acute Other LD50 Rat: 2800 mg/kg

## Sensitization

Not expected to be hazardous by OSHA criteria.

## Chronic effects

Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects. Prolonged or repeated exposure may cause lung injury.

## Carcinogenicity

Not expected to be hazardous by OSHA criteria.

### ACGIH Carcinogens

Ethylene Glycol (CAS 107-21-1)

A4 Not classifiable as a human carcinogen.

## Skin corrosion/irritation

Hazardous by OSHA criteria.

## Neurological effects

Hazardous by OSHA criteria.

## Further information

Symptoms may be delayed.

## 12. Ecological Information

### Ecotoxicological data

#### Components

Ethylene Glycol (107-21-1)

#### Test Results

LC50 Fathead minnow (*Pimephales promelas*): 8050 mg/l 96 hours

LC50 Fish: 41000 mg/L 96 Hours

## Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

## Persistence and degradability

Not available.

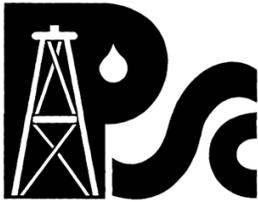
## 13. Disposal Considerations

### Disposal instructions

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.20-24). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.



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## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Non-Bulk

Not regulated as dangerous goods.

### Department of Transportation (DOT) Requirements

#### Bulk

##### Basic shipping requirements:

**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol)

**Hazard class** 9

**UN number** UN3082

**Packing group** III

##### Additional information:

**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

**Packaging exceptions** 155

**Packaging non bulk** 203

**Packaging bulk** 241

**Reportable quantity** 25000

#### TDG

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.



**DOT  
Bulk**

## 15. Regulatory Information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is listed on the U.S. EPA TSCA Inventory.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

### DEA Essential Chemical Code Number

Not regulated



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**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Not regulated

**DEA Exempt Chemical Mixtures Code Number**

Not regulated

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Ethylene Glycol (CAS 107-21-1) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Ethylene Glycol (CAS 107-21-1) Listed.

**CERCLA (Superfund) reportable quantity**

Ethylene Glycol: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No**Section 302 extremely hazardous substance** No**Section 311 hazardous chemical** No**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - New Jersey RTK - Substances: Listed substance**

Ethylene Glycol (CAS 107-21-1) Listed.

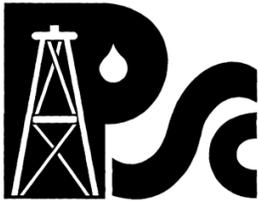
**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Ethylene Glycol (CAS 107-21-1) Listed.



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## 16. Other Information

### HMIS® ratings

Health: 1\*  
Flammability: 1  
Physical hazard: 0  
Personal protection:

### NFPA ratings

Health: 1  
Flammability: 1  
Instability: 0

### Disclaimer

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### Issue date

July-24-2008

### This data sheet contains changes from the previous version in section(s):

Transport Information: Proper Shipping Name/Packing Group

