

# **Material Safety Data Sheet**

# **WGA 15L**



## 1. Product and Company Identification

Material nameWGA 15LPatent NumberNot availableRevision dateSeptember-29-2011

Version No. 7
CAS # Mixture

Product use Water Gelling Agent

**Manufacturer information** WEATHERFORD INTERNATIONAL ENG.CHEM.

4420 SOUTH FLORES RD ELMENDORF, TX 78112 US Product Safety 210-626-0850 Chemtrec 800-424-9300

**Emergency** Chemtrec 800-424-9300

**Supplier information** Weatherford Fracturing Technologies

515 Post Oak Blvd

Suite 1000

Houston, TX 77027 US Chemtrec 800-424-9300

**Supplier emergency telephone** 

number(s)

Chemtrec 800-424-9300 Int'l 703-527-3887

#### 2. Hazards Identification

**Emergency overview** WARNING

COMBUSTIBLE LIQUID AND VAPOR.

Toxic by inhalation. Harmful in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause breathing disorders and lung damage. Components of the product may affect the nervous system. This product is not

considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA regulatory status Potential health effects This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Routes of exposure** Inhalation.

**Eyes** Do not get this material in contact with eyes. Harmful in contact with eyes. Irritating to

eyes.

**Skin** Do not get this material in contact with skin. Harmful if absorbed through the skin.

Irritating to skin.

**Inhalation** Do not breathe vapor. Toxic by inhalation. Irritating to respiratory system.

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**Ingestion** Do not ingest. Irritating to mouth, throat, and stomach. May cause delayed lung damage.

Harmful if swallowed.

**Target organs** 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is

repeated and prolonged and may cause blood damage. These effects have not been

observed in humans.

Central nervous system. Lungs. Eyes. Skin contact

**Chronic effects**Repeated inhalation may be harmful; lung irritation and serious central nervous system

disorders may result.

**Potential environmental effects** May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

ComponentsCAS #PercentPetroleum Distillates64742-47-840 - 70

## 4. First Aid Measures

First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Get medical attention immediately.

**Skin contact** Immediately flush skin with plenty of water. Remove and isolate contaminated clothing

and shoes. Get medical attention immediately. For minor skin contact, avoid spreading

material on unaffected skin. Wash clothing separately before reuse.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth

method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs

naturally, have victim lean forward to reduce risk of aspiration. Do not use

mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

**Notes to physician** Symptoms may be delayed.

**General advice** Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

## 5. Fire Fighting Measures

**Flammable properties**Combustible by OSHA criteria. Containers may explode when heated. Runoff to sewer

may cause fire or explosion hazard.

**Extinguishing media** 

Suitable extinguishing media

**Unsuitable extinguishing** 

media

Water. Dry chemical, CO2, water spray or regular foam.

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.

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# Protective equipment and precautions for firefighters

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. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. 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.

#### **6. Accidental Release Measures**

#### **Personal precautions**

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. 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.

Other information

Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

## Handling

Do not use in areas without adequate ventilation. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke. All equipment used when handling the product must be grounded. Do not breathe vapors or spray mist. Use only with adequate ventilation. Wear self-contained breathing apparatus and protective suit. Avoid release to the environment. Wash thoroughly after handling. Avoid prolonged exposure.

#### Storage

Keep locked-up. Keep the container dry. Keep away from heat and sources of ignition (spark or flame). The pressure in sealed containers can increase under the influence of heat. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with local/regional/national/international regulation.

## 8. Exposure Controls / Personal Protection

**Engineering controls** 

Provide adequate ventilation.



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Personal protective equipment

Eye / face protection Wear chemical goggles. Face-shield.

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.

**General hygeine** considerations

When using do not smoke. Keep away from food and drink. Handle in accordance with

good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

**Appearance** Hazy liquid.

Color Tan.

Odor Hydrocarbon-like. **Odor threshold** Not available **Physical state** Liquid. **Form** Liquid. Not available pΗ **Melting point** Not available Freezing point Not available

123.8 °F (51.45 °C) estimated **Boiling point** 

Flash point 151.3 °F (66.1 °C) **Evaporation rate** Not available **Flammability** Not available. Flammability limits in air, upper, Not available

% by volume

Flammability limits in air, lower,

% by volume

Not available

Not available Vapor pressure Vapor density Not available 1.048 - 1.062 Specific gravity

**Relative density** 1.0549 g/cm3 estimated

Not available Solubility (water) **Partition coefficient** Not available

(n-octanol/water)

Not available

**Auto-ignition temperature Decomposition temperature** Not available

VOC 48.2188 % estimated 0 °F (-17.8 °C) **Pour point** 

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable at normal conditions.

Conditions to avoid Heat, flames and sparks. Avoid high temperatures.

**Incompatible materials** Oxidizing materials. Hazardous decomposition products Carbon oxides.



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**Possibility of hazardous reactions** Hazardous polymerization does not occur.

## 11. Toxicological Information

**Acute effects** Acute LD50: 5890 mg/kg estimated, Rat, Oral

Acute LD50: 4149 mg/kg estimated, Rat, Dermal Acute LC50: 11 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Petroleum Distillates 64742-47-8 Inhalation LC50 Rat: >5.2 mg/L/4H; Oral LD50 Rat: >5000 mg/kg; Dermal LD50

Rabbit: >2000 mg/kg

SensitizationMay cause sensitization of susceptible persons.Chronic effectsProlonged exposure may cause chronic effects.CarcinogenicityNot expected to be hazardous by OSHA criteria.

**Neurological effects** Excessive exposure may cause central nervous system effects such as dizziness,

drowsiness or headaches.

## 12. Ecological Information

**Ecotoxicity** LC50 93.91 mg/L estimated, Fish, 96.00 Hours,

Components of this product have been identified as having potential environmental

concerns.

**Ecotoxicity - Freshwater Fish Species Data** 

Petroleum Distillates 64742-47-8 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis

macrochirus: 1740 mg/L [static]

**Ecotoxicity - Water Flea Data** 

Petroleum Distillates 64742-47-8 96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L

**Environmental effects** 

**Ecotoxicity - Freshwater Fish Species Data** 

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**Ecotoxicity - Water Flea Data** 

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## 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.

#### 14. Transport Information

## **Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

## Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.

#### **IMDG**

Not regulated as hazardous goods.



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#### **IATA**

Not regulated as hazardous goods.

## 15. Regulatory Information

Labelling

**Contains** 2-Butoxyethanol, Petroleum Distillates

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

**Occupational Safety and Health Administration (OSHA)** 

**29 CFR 1910.1200 hazardous** Yes

chemical

**CERCLA (Superfund) reportable quantity** 

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous Yes

chemical

#### **Inventory status**

Country(s) or region	Inventory name On inventory (yes/	no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (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)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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

U.S. - Texas - Effects Screening Levels - Long Term

64742-47-8 Petroleum Distillates 350 µg/m3 ESL

U.S. - Texas - Effects Screening Levels - Short Term

Petroleum Distillates 64742-47-8 3500 µg/m3 ESL



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## 16. Other Information

**HMIS® ratings** Health: 2

Flammability: 2

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 2 Instability: 0

**Prepared by** Product Stewardship

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**Issue date** September-29-2011

**MSDS sections updated** Product and Company Identification: Alternate Trade Names