

Material Safety Data Sheet**WBK 132L**

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name	WBK 132L
Patent Number	Not available
Revision date	May-07-2009
Version No.	1
CAS #	Mixture
Product use	High pH Enzyme Fracturing Breaker
Manufacturer information	Weatherford Fracturing Technologies 515 Post Oak Blvd Suite 1000 Houston, TX 77027 US
Supplier information	Weatherford Fracturing Technologies 515 Post Oak Blvd Suite 1000 Houston, TX 77027 US

2. Hazards Identification

Emergency overview	CAUTION Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Eyes	Do not get this material in contact with eyes. May cause eye irritation.
Skin	Do not get this material in contact with skin. May be irritating if absorbed through damaged skin.
Inhalation	Avoid breathing dust/fume/gas/mist/vapors/spray.
Ingestion	Do not ingest. May cause stomach distress, nausea or vomiting.
Potential environmental effects	May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Sodium Chloride	7647-14-5	15 - 40

4. First Aid Measures

First aid procedures

Eye contact	Rinse cautiously with water for several minutes. Get medical attention if irritation develops or persists.
Skin contact	Rinse skin with water. Wash off with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion	Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
General advice	If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Not a fire hazard. The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Water. Water fog. Dry chemical, CO ₂ , water spray or regular foam.
Protection of firefighters	
Protective equipment and precautions for firefighters	Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions	Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	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. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use only with adequate ventilation. Avoid release to the environment. Wash thoroughly after handling. Handle and open container with care.
Storage	Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower nearby.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Liquid.
Color	Light brown.
Odor	Yeasty.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	6 - 8 @ 1% soln/water
Melting point	14 °F (-10 °C)
Freezing point	Not available
Boiling point	221 °F (105 °C)
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.1
Relative density	1.0999 g/cm ³ estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	None known.

11. Toxicological Information

Acute effects Acute LD50: 20000 mg/kg estimated, Rat, Oral
Acute LD50: 66667 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Sodium Chloride 7647-14-5 Inhalation LC50 Rat: >42 g/m³/1H; Oral LD50 Rat: 3 g/kg; Dermal LD50 Rabbit: >10 g/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Not expected to be hazardous by OSHA criteria.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

Neurological effects Not expected to be hazardous by OSHA criteria.

Further information This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity LC50 64500 mg/L estimated, Fish, 96.00 Hours,
EC50 6667 mg/L estimated, Daphnia, 48.00 Hours,
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Sodium Chloride 7647-14-5 96 Hr LC50 Lepomis macrochirus: 9675 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 12946 mg/L [static]; 96 Hr LC50 Pimephales promelas: 7650 mg/L [static]

Ecotoxicity - Water Flea Data

Sodium Chloride 7647-14-5 48 Hr EC50 Daphnia magna: 1000 mg/L

Environmental effects

Ecotoxicity - Freshwater Fish Species Data

Sodium Chloride 7647-14-5 96 Hr LC50 Lepomis macrochirus: 9675 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 12946 mg/L [static]; 96 Hr LC50 Pimephales promelas: 7650 mg/L [static]

Ecotoxicity - Water Flea Data

Sodium Chloride 7647-14-5 48 Hr EC50 Daphnia magna: 1000 mg/L

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 261.4 (b)(4)). 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 dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.



IATA

Not regulated as dangerous goods.

15. Regulatory Information**Labelling****Contains** Sodium Chloride**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.**U.S. - FDA - Food Additives Generally Recognized as Safe (GRAS)**

Sodium Chloride 7647-14-5 21 CFR 182.70, 21 CFR 182.90

Occupational Safety and Health Administration (OSHA)**29 CFR 1910.1200 hazardous chemical** Yes**CERCLA (Superfund) reportable quantity**

None

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

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	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

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

16. Other Information**HMIS® ratings**Health: 1
Flammability: 0
Physical hazard: 0**NFPA ratings**Health: 1
Flammability: 0
Instability: 0

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Disclaimer

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