Material Safety Data Sheet

POLY BREAK

1. Product and Company Identification

Material name	**POLY BREAK**
Patent Number	Not available
Revision date	June-22-2011
Version No.	3
CAS #	Mixture
Product use	Gel Breaker
Manufacturer information	Clearwater International LLC 100 Leetsdale Industrial Dr. Leetsdale, PA 15056 US Product Safety (724)-318-1050 Chemtrec 1-800-424-9300
Emergency	Chemtrec 1-800-424-9300
Supplier information	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
Supplier emergency telephone number(s)	24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview	Causes skin and eye burns.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Eyes	This product causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.
Skin	Causes skin burns. Do not get this material in contact with skin.
Inhalation	Causes burns. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Do not ingest.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Sodium Hypochlorite	7681-52-9	15 - 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	In case of shortness of breath, give oxygen. Keep victim warm.
General advice	In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

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. 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. 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. Do not scatter spilled material with high pressure water streams. 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	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. Do not contaminate water.
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. 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. Avoid prolonged exposure.
Storage	Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	Do not get this material in contact with eyes. Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Do not get this material in contact with skin. Do not get this material on clothing. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
Respiratory protection	If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
General hygeine considerations	Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. 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 liquid.
Color	Colourless to yellowish.
Odor	Slight chlorine.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	Not available
Melting point	26.6 °F (-3 °C) estimated
Freezing point	Not available
Boiling point	190.4 °F (88 °C) estimated
Flash point	none
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	1.2 60 F
Relative density	1.1999 g/cm3 estimated
Solubility (water)	100 %
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.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Amines. Ammonia. Strong acids. Powerful oxidizers.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects

Acute LD50: 68333 mg/kg estimated, Rat, Oral
Acute LD50: 83333 mg/kg estimated, Rat, Dermal
Causes burns.

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Sodium Hypochlorite	7681-52-9	Oral LD50 Rat: 8200 mg/kg; Dermal LD50 Rabbit: >10000 mg/kg

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.

12. Ecological Information

Ecotoxicity

LC50 3.5 mg/L estimated, Fish, 96.00 Hours,

Ecotoxicity - Freshwater Algae Data

Sodium Hypochlorite	7681-52-9	24 Hr EC50 Skeletonema costatum: 0.095 mg/L

Ecotoxicity - Freshwater Fish Species Data

Sodium Hypochlorite	7681-52-9	96 Hr LC50 Pimephales promelas: 0.22 - 0.62 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 5.9 mg/L [static]

Ecotoxicity - Water Flea Data

Sodium Hypochlorite	7681-52-9	96 Hr EC50 Daphnia magna: 2.1 mg/L

Environmental effects Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

Sodium Hypochlorite	7681-52-9	24 Hr EC50 Skeletonema costatum: 0.095 mg/L

Ecotoxicity - Freshwater Fish Species Data

Sodium Hypochlorite	7681-52-9	96 Hr LC50 Pimephales promelas: 0.22 - 0.62 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 5.9 mg/L [static]

Ecotoxicity - Water Flea Data

Sodium Hypochlorite	7681-52-9	96 Hr EC50 Daphnia magna: 2.1 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

Basic shipping requirements:

Proper shipping name	HYPOCHLORITE SOLUTION
Hazard class	8
UN number	1791
Packing group	II
Additional information:	
ERG number	154

Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name	HYPOCHLORITE SOLUTION
Hazard class	8
UN number	1791
Packing group	II
Additional information:	
ERG number	154

Canadian Transportation of Dangerous Goods (TDG) Requirements

Basic shipping requirements:

Proper shipping name	HYPOCHLORITE SOLUTION
Hazard class	8
UN number	1791
Packing group	II
Additional information:	
ERG number	154

IMDG

Basic shipping requirements:

Proper shipping name	HYPOCHLORITE SOLUTION
Hazard class	8
UN number	1791
Packing group	II

IATA

Basic shipping requirements:

Proper shipping name	HYPOCHLORITE SOLUTION
Hazard class	8
UN number	1791
Packing group	II

15. Regulatory Information

Labelling

Contains Sodium Hypochlorite

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.

U.S. - FDA - Direct Food Additives

Sodium Hypochlorite	7681-52-9	21 CFR 173.315

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Sodium Hypochlorite: 100.0000

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	Yes

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 New and Existing Chemicals (EINECS)	No
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	No
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)

International regulations

Canada - WHMIS - Ingredient Disclosure List

Sodium Hypochlorite	7681-52-9	1 %

State regulations

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

U.S. - Massachusetts - Right To Know List

Sodium Hypochlorite	7681-52-9	Present

U.S. - Minnesota - Hazardous Substance List

Sodium Hypochlorite	7681-52-9	Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Sodium Hypochlorite	7681-52-9	sn 1707

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium Hypochlorite	7681-52-9	Environmental hazard

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

Sodium Hypochlorite	7681-52-9	1.5 µg/m3 ESL

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

Sodium Hypochlorite	7681-52-9	15 µg/m3 ESL

16. Other Information

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 1

NFPA ratings	Health: 2 Flammability: 1 Instability: 1
Prepared by	Amanda L. Ruston 4420 South Flores Road Elmendorf, Texas 78112 210-626-0850
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MSDS sections updated	Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients