

## 1. IDENTIFICATION

**Product Identifier**  
**Product Name** HYDRO TREAT LIQUID

**Recommended use of the chemical and restrictions on use**  
**Recommended use** Boiler water treatment  
**Restrictions on use** For industrial use only

**Supplier details**  
 West Penetone Inc.  
 11411-160 Street  
 Edmonton, AB,  
 T5M3T7  
 Tel: 780-454-3919

**Emergency Telephone Number**  
 Canutec (613)-996-6666

## 2. HAZARDS IDENTIFICATION

**Classification**

Corrosive to metals	Category 1
Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**Label Elements**

<p><b>DANGER</b></p> <p><b>Hazard Statements</b>                  May be corrosive to metals                  Harmful if swallowed                  Causes severe skin burns and eye damage</p>	
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**Precautionary Statements - Prevention**

Keep only in original packaging.  
 Do not breathe dusts or mists.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
 Absorb spillage to prevent material-damage.

**Precautionary Statements - Storage**

Store in a corrosion resistant/container with a resistant inner liner. Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
sodium hydroxide	1310-73-2	10-30
sodium lignosulfonate	8061-51-6	1-5
sodium sulfite	7757-83-7	0.5-1.5

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

**Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause serious corneal injury or damage leading to severe irritation, mild scarring to blistering, disintegration, or ulceration, severe scarring and clouding, loss of vision, and permanent blindness. Contact with skin may cause serious burns or irritation with pain, local redness swelling, or blistering, and tissue damage. Ingestion can cause serious burns to mouth, esophagus, and stomach. Aspiration may cause severe lung damage.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

Water jet.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed including oxides of carbon, sodium, and sulfur.

**Protective Equipment and Precautions for Firefighters**

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, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective equipment. High risk of slipping due to leakage/spillage of product.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

Contain, neutralize, and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush the area with plenty of water. For large spills, stop flow of material, employ dike or bund, and pump off product where this is without risk and possible. Proceed as above.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

**Handling** Handle and open containers with care. Avoid contact with skin, eyes, and clothing. Keep containers closed when not in use. Empty containers may contain hazardous product residues.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed away from incompatible materials. Store at >16°C (60.8°F).

**Incompatible Materials** Strong oxidizing or reducing materials, acids, glycols, amphoteric or light metals.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
sodium hydroxide 1310-73-2	2 mg/m <sup>3</sup> ceiling	2 mg/m <sup>3</sup> ceiling	10 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Under the intended modes of use, exposure control measures are not required.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Safety glasses with side shields or goggles or face-shield where risk of splashing is high.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** No personal respiratory equipment normally required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing to remove contaminants.

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE :**

Brown liquid

**ODOR**

Odorless

**ODOR THRESHOLD :**

Not applicable

**pH :**

&gt;13.0

**MELTING POINT / FREEZING POINT :**

Approx. -15°C

**BOILING POINT/BOILING RANGE :**

Approx. 100°C

**FLASH POINT :**

None

**EVAPORATION RATE, water = 1 :**

1

**FLAMMABILITY (SOLID, GAS):**

Not applicable

**VAPOR PRESSURE, mm Hg AT 20°C :**

Not available

**VAPOR DENSITY (Air = 1) :**

Not available

**RELATIVE DENSITY AT 20°C:**

1.280-1.290

**SOLUBILITY IN WATER :**

Complete

**PARTITION COEFFICIENT, N-OCTANOL/WATER :**

Not available

**AUTO-IGNITION TEMPERATURE :**

None

**DECOMPOSITION TEMPERATURE:**

Not available

**VISCOSITY:**

Not available

**FLAMMABLE LIMITS :****UPPER:** Not applicable **LOWER :** Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to Avoid

Store away from incompatible materials. Will generate heat when mixed with water. Contact with amphoteric or light metals may product flammable hydrogen gas.

### Incompatible Materials

Strong oxidizing or reducing materials, acids, glycols, amphoteric or light metals.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decompositions can lead to release of irritating gases and vapors such as oxides of carbon, sodium, and sulfur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

**ATE<sub>mix</sub>** – LD50 oral – approx.  $\geq 1959$ mg/kg (rat), LD50 dermal – approx.  $\geq 5142$ mg/kg (rabbit), LC50 inhalation-mist –  $>286$ mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium hydroxide 1310-73-2	500 mg/kg (rabbit)	Not listed	Not listed
sodium lignosulfonate 8061-51-6	$>2000$ mg/kg (rat)	$>2000$ mg/kg (rabbit)	$>20$ mg/L (rat) – 4 h
sodium sulfite 7757-83-7	2610-6400 mg/kg (rat)	Not listed	$>5.5$ mg/L (rat) – 4 h

### Information on likely sources of exposure

#### **Serious eye damage/irritation**

Corrosive to eyes and may cause grave lesions, including blindness.

#### **Skin corrosion/irritation**

Corrosive to skin. May cause irritation, local reddening, blistering, ulceration, discoloration, or permanent scarring of skin, depending on concentration.

#### **Ingestion**

May be harmful if swallowed.

#### **Inhalation**

Expected to be a low inhalation hazard.

### Delayed and immediate effects and also chronic effects from short and long-term exposure

#### **Respiratory or skin sensitization**

Not a sensitizer.

#### **Germ cell mutagenicity**

None known.

#### **Carcinogenicity**

No information available

#### **Reproductive toxicity**

No information available

#### **STOT - single exposure**

No information available.

#### **STOT-repeated exposure**

No information available.

#### **Aspiration Hazard**

None.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye damage or irritation. Skin burns or irritation.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical Name	Fish	Waterflea	Algae
sodium hydroxide 1310-73-2	1149 mg/kg: 96 h rainbow trout LC50	Not available	Not available
sodium sulfite 7757-83-7	460 mg/L: 96 h western mosquitofish LC50	440 mg/L: 48 h daphnia magna LC50	Not available

**Persistence and degradability**

Not applicable to inorganic materials.

**Bioaccumulative potential**

Accumulation in organisms is not to be expected.

**Mobility in soil**

No information available

**Other adverse effects**

Do not release untreated into natural waters. No other adverse environmental effects are expected.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

UN 3266, Corrosive Liquid, Basic, Inorganic, N.O.S. (sodium hydroxide solution), Class 8, PG III

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

12 May 2017

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**