

1. IDENTIFICATION

Product Identifier

Product Name HYDRO TREAT LIQUID
Chemical Name Sodium hydroxide solution

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

Main office – (780)-454-3919, 8:00 AM to 4:30 PM MST

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

DANGER

Hazard Statements

May be corrosive to metals
Harmful if swallowed
Causes severe skin burns and eye damage



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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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 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.
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

* the actual concentration has been withheld as a trade secret

4. FIRST AID MEASURES

Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Eye contact	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.

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 ³ ceiling	2 mg/m ³ ceiling	10 mg/m ³

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 :

>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_{mix} – LD50 oral – approx. ≥ 1959 mg/kg (rat), LD50 dermal – approx. ≥ 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

UN Number:	3266
UN Proper Shipping Name:	Corrosive Liquid, Basic, Inorganic, N.O.S. (sodium hydroxide solution)
Transport Hazard Class(es)	
Class:	TDG: 8
	US DOT: 8
	IMDG: 8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	None established
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not determined

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

HMIS Information:

Health:	3
Flammability:	0
Reactivity:	0

16. OTHER INFORMATION**Preparation Date**

12 May 2017

Revision Date

4 July 2025

Revision Note

Revision 2 – Modifications to Sections 1

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