



Pall Cassette Preservative

Sodium Hydroxide Solution 1.2% (0.3N / 0.3M)

I. Product and Company Description

Pall Corporation
225 Marcus Boulevard
Hauppauge, NY 11788, USA
Emergency Phone Number:
CHEMTREC 800-424-9300
For Product Information: 631-273-0911
Chemical Name or Synonym: Sodium hydroxide
Molecular Formula: NaOH

II. Chemical Composition

Component	CAS#	% Composition
Sodium hydroxide	1310-73-2	1.2
Water	7732-18-5	Balance

III. Hazards Identification

Potential Health Effects:

Acute Eye: May cause irritation

Acute Skin: Frequent or prolonged contact may irritate the skin.

Acute Inhalation: May cause upper respiratory irritation if inhaled.

Acute ingestion: May cause digestive tract irritation.

Chronic effects: None.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Remove contact lenses after flushing.

Skin Exposure: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: ND

Method Used: ND

Flammability Limits (vol/vol%):

Lower: ND

Upper: ND

Extinguishing Media: In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Special Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: None.

Hazardous Decomposition Materials

(Under Fire Conditions): Toxic fumes of sodium oxide, sodium peroxide fumes.

VI. Accidental Release Measures

Cleanup and Disposal of Spill: Absorb spill with inert material (e.g., dry sand or earth), then place into a chemical waste container. Neutralize spill with a weak acid such as vinegar or acetic acid. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling and Storage: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

Avoid ingestion and inhalation. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	ACGIH	NIOSH	OSHA-PELs
Sodium Hydroxide	2 mg/m ³	10 mg/m ³	2 mg/m ³ TWA

Engineering Controls: Ventilation must be adequate to maintain the ambient

workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection: Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection: When handling product, avoid prolonged or repeated contact with skin. Wear protective clothing to minimize contact.

IX. Physical and Chemical Properties

Physical Appearance: Clear, colorless liquid

Odor: Odorless

pH: 13

Specific Gravity: ND

Water Solubility: Soluble

Melting Point Range: ND

Freezing Point Range: ND

Boiling Point: ND

Vapor Pressure: ND

Vapor Density: ND

Percent Volatiles by Volume: ND

Product: Cassette Preservative B

Viscosity: ND

X. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Incompatible materials

Materials / Chemicals to be Avoided:

Sodium hydroxide is incompatible with aluminum + arsenical materials, ammonia + silver nitrate, benzene-1,4-diol, N,N¹-Bis(trinitroethyl)urea, bromine, 4-chlorobutyronitrile, chloroform + methanol, 4-chloro-2-methylphenol, cinnamaldehyde, cyanogen azide, diborane, 2,2-dichloro-3,3-dimethylbutane, glycols, maleic anhydride, 4-methyl-2-nitrophenol, 3-methyl-2-penten-4-yn-1-ol, nitrobenzene, sodium tetrahydroborate, sugars, 1,2,4,5-Tetrachlorobenzene, 1,1,-

Trichloroethanol, trichloroethylene, trichloronitromethane, zinc, zirconium. Reacts with mineral acids to form corresponding salts; reacts with weak acid gases like hydrogen sulfide, sulfur dioxide, and carbon dioxide, ignites when in contact with cinnamaldehyde or zinc; and reacts explosively with a mixture of chloroform and methane. Corrosive to metals such as aluminum, tin, and zinc as well as to alloys such as steel, and may cause formation of flammable hydrogen gas.

Hazardous Decomposition Products:

Toxic fumes of sodium oxide, sodium peroxide fumes.

Hazardous Polymerization: Will not occur.

XI. Toxicological Information

RTECS #:

CAS# 1310-73-2: WB4900000

CAS# 7732-18-5: ZC0110000

LD50/LC50: Not available.

CAS# 7732-18-5: Oral,

rat: LD50 = >90 mL/kg.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Water – Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: Mutation data reported.

Other Studies: No data available.

XII. Ecological Information

Ecotoxicity: Not available.

Environmental Fate: Not available.

Physical/Chemical: Not available.

Other: Not available.

XIII. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Not listed as a material banned from land disposal according to RCRA.

XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
	Hazard Class	8
	ID Number	UN1824
	Packaging Group	II
IMO	Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
	Hazard Class	8
	ID Number	UN1824
	Packaging Group	II
IATA	Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
	Hazard Class	8
	ID Number	UN1824
	Packaging Group	II
RID/ADR	Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
	Dangerous Goods Code	8 (42B)
	ID Number	UN1824
Canadian TDG	Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
	Hazard Class	8 (9.2)
	ID Number	UN1824

XV. Regulatory Information

Federal Regulations:

US FEDERAL

TSCA

CAS# 1310-73-2 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the

Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS# 1310-73-2: acute, reactive.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Sodium hydroxide can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts. Water is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1310-73-2: 1

CAS# 7732-18-5: No information available.

Canada

CAS# 1310-73-2 is listed on Canada's DSL/NDSL List.

CAS# 7732-18-5 is listed on Canada's

DSL/NDSL List.

This product does not have a WHMIS classification.

CAS# 1310-73-2 is not listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

XVI. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of
Governmental Industrial
Hygienists

OSHA – Occupational Safety and Health
Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

NTP – National Toxicology Program

IARC – International Agency for Research
on Cancer

The information contained herein is based on the data available to us and is believed to be correct. However Pall Corporation makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.



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