



The Public Health and Safety Organization

NSF Product and Service Listings

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<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?>

[CompanyName=Brenntag+Pacific%2C+LLC&ChemicalName=Sodium+Hydroxide&PlantState=California+CA&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Brenntag+Pacific%2C+LLC&ChemicalName=Sodium+Hydroxide&PlantState=California+CA&)

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

Brenntag Pacific, LLC

10747 Patterson Place

Santa Fe Springs, CA 90670

United States

323-562-9500

[Visit this company's website](#)

([http://www.brenntag.com/north-america/en/about-](http://www.brenntag.com/north-america/en/about-brenntag/regional-capabilities/brenntag-pacific/index.jsp)

[brenntag/regional-capabilities/brenntag-](http://www.brenntag.com/north-america/en/about-brenntag/regional-capabilities/brenntag-pacific/index.jsp)

[pacific/index.jsp](http://www.brenntag.com/north-america/en/about-brenntag/regional-capabilities/brenntag-pacific/index.jsp)).

Facility : Fresno, CA

Sodium Hydroxide

Trade Designation

Caustic Soda Solution, 25%[4]

Product Function

Corrosion & Scale Control
pH Adjustment

Max Use

200mg/L

Caustic Soda Solution, 30%[4]

Corrosion & Scale Control
pH Adjustment

165mg/L

Caustic Soda Solution, 50%[4]	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 20%[4]	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide Solution, 25%[4]	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide Solution, 30%[4]	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide Solution, 50%[4]	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide, 25%[4]	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide, 30%[4]	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide, 50%[4]	Corrosion & Scale Control pH Adjustment	100mg/L

[4] Trade designation may be followed by a three digit alpha suffix to designate the chlor-alkali electrolytic cell category/grade.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Richmond, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda Solution, 50%[5]	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 20%[5]	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%[5]	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%[5]	Corrosion & Scale Control pH Adjustment	167mg/L
Sodium Hydroxide Solution, 50%[5]	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hydroxide, 50%[5]	Corrosion & Scale Control pH Adjustment	100mg/L
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[5] Trade designation may be followed by a three digit alpha suffix to designate the chlor-alkali electrolytic cell category/grade.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : South Gate, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Hydroxide 15%[6]	pH Adjustment Corrosion & Scale Control	250mg/L
Sodium Hydroxide 15% Solution[6]	pH Adjustment Corrosion & Scale Control	250mg/L
Sodium Hydroxide Solution, 20%[6]	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide Solution, 25%[6]	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide Solution, 30%[6]	Corrosion & Scale Control pH Adjustment	167mg/L
Sodium Hydroxide Solution, 50%[6]	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide, 20%[6]	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide, 25%[6]	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide, 30%[6]	Corrosion & Scale Control pH Adjustment	167mg/L
Sodium Hydroxide, 50%[6]	Corrosion & Scale Control pH Adjustment	100mg/L

[6] Trade designation may be followed by a three digit alpha suffix to designate the chlor-alkali electrolytic cell category/grade.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Wilmington, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Hydroxide 50%[1]	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide Solution[1]	Corrosion & Scale Control pH Adjustment	100mg/L

[1] Trade designation may be followed by a three digit alpha suffix to designate the chlor-alkali electrolytic cell category/grade.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Number of matching Manufacturers is 1

Number of matching Products is 28

Processing time was 1 seconds

Certificate of Analysis

Sodium Hydroxide 20%

Date: 11/01/2018

Lot No.: SG-471063

Tests

Appearance:

Specific Gravity @ 20°C:

% NaOH:

Results

Clear Colorless Liquid

1.223

20.05

Approved By: Nader G. L. Louca
Nader Louca
Quality Control Chemist



Certificate of Analysis

Sodium Hydroxide 25%

Date: 02/15/2023

Lot No.: SG-611462

Tests

Appearance:
Specific Gravity @ 20⁰C:
% NaOH:
% Na₂O:

Results

Clear Colorless Liquid
1.276
25.16
19.50

Maximum use level 200 mg/L

Approved By: Nader G. L. Louca
Nader Louca
Quality Control Chemist

Brenntag Pacific, Inc.
4545 Ardine Street
South Gate, CA 90280

Telephone: (323) 832-5000
Fax: (323) 773-0909



Certificate of Analysis

Sodium Hydroxide 30%

Date: 02/16/2023

Lot No.: SG-611510

Tests

Appearance:
Specific Gravity @ 20°C:
% Sodium Hydroxide:

Results

Clear Colorless Liquid
1.327
29.84

Approved By: Nader G. L. Louca
Nader Louca
Quality Control Chemist



Certificate of Analysis

Sodium Hydroxide 50% Membrane

Date: 02/22/2023

Manufacturing Date: 02/15/2023

Expiration Date: 02/15/2026

Lot No.: WMT-350376-1

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Sodium Hydroxide (NaOH), Wt%	48.50 – 51.00	48.66 %
Total Alkalinity as Na ₂ O, Wt%	37.59 -39.52	37.70 %

	<u>Wt %</u>	<u>ppm</u>	
Sodium Carbonate (Na ₂ CO ₃), Max	0.15	1500	0.05 %
Sodium Chloride (NaCl), Max	0.01	100	17 ppm
Sodium Chlorate (NaClO ₃)	---	---	22 ppm
Sodium Sulfate (Na ₂ SO ₄), Max	0.008	80	39 ppm
Iron (Fe), Max	0.005	5.0	0.40 ppm
Specific Gravity @ 60/60 °F			1.519

Maximum use level 100 mg/L

Brenntag Pacific, Inc.
4545 Ardine Street
South Gate, CA 90280

Telephone: (323) 832-5000
Fax: (323) 773-0909



1. Identification

Other means of identification None known.
Product identifier **SODIUM HYDROXIDE 50% DIA**
Recommended use ALL PROPER AND LEGAL PURPOSES
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brenntag Pacific Inc.
Address 10747 Patterson Place
 Santa Fe Springs, CA 90670
Telephone 562-903-9626
E-mail Not available.
Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity, oral Category 3
 Skin corrosion/irritation Category 1
 Serious eye damage/eye irritation Category 1
 Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement
Prevention Avoid breathing mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. 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/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
SODIUM HYDROXIDE (NA(OH))		1310-73-2	50 - 60

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid breathing mist/vapors. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	PEL	2 mg/m ³

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m ³

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	IDLH	10 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color CLEAR

Odor ODORLESS

Odor threshold Not available.

pH 14

14

Melting point/freezing point 41 °F (5 °C)

Initial boiling point and boiling range 1371.2 °F (744 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)** Not available.**Explosive limit - upper (%)** Not available.**Vapor pressure** Not available.**Vapor density** Not available.**Relative density** Not available.**Solubility(ies)****Solubility (water)** Not available.**Partition coefficient** Not available.**(n-octanol/water)****Auto-ignition temperature** Not available.**Decomposition temperature** Not available.**Viscosity** Not available.**Other information****Density** 12.76 lbs/gal
1.53 g/ml**Explosive properties** Not explosive.**Oxidizing properties** Not oxidizing.**Percent volatile** 50 % estimated**Specific gravity** 1.53**10. Stability and reactivity****Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.**Chemical stability** Material is stable under normal conditions.**Possibility of hazardous reactions** Hazardous polymerization does not occur.**Conditions to avoid** Contact with incompatible materials.**Incompatible materials** Strong acids.**Hazardous decomposition products** No hazardous decomposition products are known.**11. Toxicological information****Information on likely routes of exposure****Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.**Skin contact** Causes severe skin burns.**Eye contact** Causes serious eye damage.**Ingestion** Toxic if swallowed. Causes digestive tract burns.**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.**Information on toxicological effects****Acute toxicity** In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Toxic if swallowed.

Product	Species	Test Results
SODIUM HYDROXIDE 50% DIA		
Acute		
Dermal		
ATEmix		2700 mg/kg bw
Oral		
ATEmix		280 mg/kg bw

Components	Species	Test Results
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)		
Acute		
Dermal		
LD50	Rabbit	1350 mg/kg
Oral		
LD50	Rat	140 - 340 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization		
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	Due to partial or complete lack of data the classification is not possible.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.		
US. National Toxicology Program (NTP) Report on Carcinogens		
Not listed.		
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel]
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1824
UN proper shipping name SODIUM HYDROXIDE SOLUTION RQ
Transport hazard class(es)
Class 8
Subsidiary hazard -
Packing group II
Environmental hazards
Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport information on packaging may be different from that listed. Transportation information on packaging may be different from that listed.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

California Proposition 65California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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 Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-04-2016
Revision date	01-18-2024
Version #	53
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 0 Instability: 1

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