

Safety Data Sheet

Product No. 19540 Sodium Hydroxide, 2N Solution, carbonate-free

Issue Date (05-06-15)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Sodium Hydroxide, 2N Solution, carbonate-free

Synonym: none

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS Pictograms



GHS05

GHS Categories

GHS05: Corrosive

Skin corr. 1A H314: Causes severe burns and eye damage.

Eye dam. 1 H318: Causes serious eye damage.

2.2 Label elements

Hazard pictograms



GHS05

Signal Word: DANGER

Hazard-determining components of labeling:

Sodium hydroxide

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see on this label).
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Label: C; Corrosive

Hazard-determining components of labeling: Sodium Hydroxide

Risk phrases:

35- Causes severe burns.

Safety phrases:

26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 - This material and its container must be disposed of as hazardous waste

Health Effects:

NFPA Hazard Rating: Health: 3; Fire: 0; Reactivity: 0

HMIS® Hazard Rating: Health: 4; Fire: 0; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Emergency overview

Appearance: Colorless Liquid

Immediate effects: ND

Potential health effects

Primary Routes of entry: Ingestion, inhalation, skin and eye contact.

Signs and Symptoms of Overexposure: ND

Eyes: Causes eye damage.

Skin: Causes severe skin burns.

Ingestion: Harmful if swallowed.

Inhalation: Harmful by inhalation.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Results of PBT and vPvB assessment: A Chemical Safety Assessment has not been carried out.

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen

Sodium Hydroxide (1310-73-2) EINECS: 215-185-5 Skin Corr. 1A, H314	2.5-10	2	2	No	No	No
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Section 4: First Aid Measures

If accidental overexposure is suspected

General information: Immediately remove any clothing soiled by the product.

Eye(s) Contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: In case of unconsciousness, place patient stably in side position for transportation.

Ingestion: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Note to physician

Treatment: No further relevant information available.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: Not applicable.

Flammable Limits: Product is not flammable.

Auto-ignition point: ND

Fire Extinguishing Media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: ND

DOT Class: Corrosive

Section 6: Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled:

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not allow to enter sewers/ surface or ground water.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep container tightly sealed.

Storage temperature: NA

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Ingredients with limit values that require monitoring at the workplace: 1310-73-2 sodium hydroxide. WEL:

Short-term value: 2 mg/m³.

Engineering Controls

Ventilation required: Ensure good ventilation/exhaustion at the workplace.

Personal Protection Equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Skin protection: Wear protective gloves and clothing.
Eye protection: Tightly sealed goggles.
Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Liquid, Colorless

Odor (threshold): Odorless (Not determined).

Specific Gravity (H₂O=1): 1.0904 g/cm³

Vapor Pressure at 20°C: 23 hPa

Vapor Density (air=1): Not determined.

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 100°C

Freezing point / melting point: ND

pH: ND

Solubility in Water: Fully miscible.

Molecular Weight: ND

Solvent content:

Organic solvents: 0.0 %

Water: 92.0 %

VOC (EC) 0.00 %

Solids content: 8.0 %

Section 10: Stability and Reactivity

Stability: ND

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): ND

Hazardous Decomposition Products: None known.

Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity: Oral LD50: 2000 mg/kg (rat).

Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Strong caustic effect.

Sensitization: No sensitizing effects known.

Human experience: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Aquatic toxicity: ND

Persistence and degradability: ND

Bioaccumulative potential: ND

Mobility in soil: ND

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or un-neutralized.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: None

Waste treatment methods: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Un-cleaned packaging: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Sodium Hydroxide Solution

Hazard Class: 8

Packaging group: II

UN Number: UN1824

IATA: Proper shipping name: Sodium Hydroxide Solution

Hazard Class: 8

Packing group: II

UN Number: UN1824

IMO: Proper shipping name: Sodium Hydroxide Solution

Class: 8

UN Number: UN1824

Packing group: II

Marine Pollutant: No

Canadian TDG: Proper shipping name: Sodium Hydroxide Solution

Section 15: Regulatory Information

United States Federal Regulations

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: Section 355 (extremely hazardous substances): None of the ingredients is listed.

SARA Title III: Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

RCRA: None

TSCA: All ingredients are listed.

CERCLA: ND

State Regulations

California Proposition 65: Not listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

International Regulations

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Canada WHMIS: ND

Europe EINECS Numbers: 215-185-5

Section 16: Other Information

Label Information: Corrosive

European Risk and Safety Phrases: See Section 2.

European symbols needed: See Section 2.

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.