

Safety Data Sheet

Product No. 19539 Sodium Hydroxide

Issue Date (12-31-13)

Review Date (01-30-15)

Section 1: Product and Company Identification

Product Name: Sodium Hydroxide

Synonym: ND

Company Name

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

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

GHS Pictograms:



Corrosive

GHS Categories:

GHS05: Corrosive

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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 or doctor/physician.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Signal Word: DANGER

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

Label: C; Corrosive

R35: Causes severe burns.

Health Effects:

NFPA Hazard Rating: Health: 4; Fire: 0; Reactivity: 0
 HMIS® Hazard Rating: Health: 4; Fire: 0; Reactivity: 0
 (0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Emergency overview

Appearance: Solid, White

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)

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	IARC	OSHA regulated
Sodium Hydroxide (1310-73-2) EC number: 215-185-5 Index number: 011-002-00-6	ND	2	2	No	No	No

Section 4: First Aid Measures**If accidental overexposure is suspected**

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 on surrounding materials.

Special Fire Fighting Procedures: Water on pellets can generate heat.

Unusual Fire and Explosion Hazards: Product does not present an explosion hazard.

Hazardous combustion products: ND

DOT Class: Corrosive.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Keep unprotected persons away.

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Use neutralizing agent. Ensure adequate ventilation.

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 adequate ventilation.

Storage temperature: Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Ingredients with limit values that require monitoring at the workplace: 1310-73-2 Sodium Hydroxide

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.

Engineering Controls

Ventilation required: Ensure adequate ventilation. Use in chemical fume hood

Personal Protection Equipment

Respiratory protection: Use dust mask as required.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of

the glove material on consideration of the penetration times, rates of diffusion and the degradation

Skin protection: Protective gloves and clothing as required

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: Solid, White

Odor (threshold): Odorless (ND)

Specific Gravity (H₂O=1) 20 °C (68 °F): 2.13 g/cm³ (17.775 lbs/gal)

Vapor pressure at 800 °C (1472 °F): 3.5 hPa (3 mm Hg)

Vapor Density (air=1): Not applicable.

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): Not applicable.

Boiling Point: 1390 °C

Freezing point / melting point: 319 °C

pH: Not applicable.

Solubility in Water: 420 g/l

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: ND

Conditions to Avoid: Moisture sensitive. Keep container sealed

Materials to Avoid (Incompatibility): Water poured on pellets can generate heat with solution. Flammable hydrogen gas may be produced on prolong contact with metals such as aluminum, tin, lead and zinc.

Hazardous Decomposition Products: No dangerous decomposition products known.

Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity: LD/LC50 values relevant for classification: 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.

Additional toxicological information:

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

Ecological Information:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Assessment by list): 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: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Un-cleaned packaging: Recommendation: 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, Solid

Hazard Class: 8

Packaging group: II

UN Number: UN1823

IATA: Proper shipping name: Sodium Hydroxide, Solid

Hazard Class: 8

Packing group: II

UN Number: UN1823

Domestic shipments only: ND

IMO: Proper shipping name: Sodium Hydroxide, Solid

Class: 8

UN Number: UN1823

Packing group: II

Marine Pollutant: No

Canadian TDG: Proper shipping name: Sodium Hydroxide, Solid

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: Section 355 (extremely hazardous substances): Substance is not listed.

SARA Title III: Section 313 (Specific toxic chemical listings): Substance is not listed.

RCRA: None

TSCA: Substance is listed.

CERCLA: Sodium Hydroxide (1310-73-2): RQ =1000 lbs (454 Kg).

State Regulations

California Proposition 65:

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH): Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

A Chemical Safety Assessment has not been carried out.

International Regulations

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

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