

**SECTION I – IDENTIFICATION**

Product Name: ASCARITE II

Product Code: CO49H40, CO49U90

Also Identified As: Sodium Hydroxide, Caustic Soda

Recommended Uses: Laboratory chemicals, Gas scrubber, Analytical analysis

Safety Data Sheet Supplied By:

P. W. PERKINS CO., INC.  
221 COMMISSIONERS PIKE  
WOODSTOWN NJ 08098 USA  
1-856-769-3525

Emergency Telephone Number:

Chemtrec: 1-800-424-9300

Chemtrec International (Collect): 1-703-527-3887

**SECTION II – HAZARDS IDENTIFICATION**

GHS Classification: CORROSIVE

|                        |             |
|------------------------|-------------|
| Corrosive to Metals    | Category 1A |
| Skin Corrosion         | Category 1B |
| Serious Eye Damage     | Category 1  |
| Acute Aquatic Toxicity | Category 3  |



Signal Word: DANGER

Hazard Statements:

H290: May be corrosive to metals  
H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage  
H332: Harmful if inhaled  
H402: Harmful to aquatic life

Precautionary Statements:

P102: Keep out of reach of children  
P232, P233: Protect from moisture / Keep container tightly closed  
P260: Do not breathe dust  
P262: Do not get in eyes, skin, or on clothing  
P264: Wash hands thoroughly after handling  
P280: Wear eye protection, protective gloves, and protective clothing

Response to Precautionary Statements:

P301, P330, P331: IF SWALLOWED, rinse mouth. Do NOT induce vomiting  
P301, P310: IF SWALLOWED, immediately call POISON CENTER or DOCTOR  
P303, P361, P353: IF ON SKIN OR HAIR, rinse with water.  
P304, P340, P311: IF INHALED: remove person to fresh air, get medical advice.  
P305, P352, P338, P313: IF IN EYES, wash with plenty of water, remove contact lenses if able to do so, continue rinsing. Get immediate medical attention.  
P306, P363: IF ON CLOTHING, wash contaminated clothing before reuse

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#### Storage Precautionary Statements:

P402, P404: Store in a dry place, store in a closed container

P406: Store in a corrosive resistance container

#### Other Hazards:

Material produces exothermic reaction generating heat when dissolved in water.

#### SECTION III – COMPOSITION

| Name             | CAS#      | %      |
|------------------|-----------|--------|
| Sodium Hydroxide | 1310-73-5 | 90-95% |
| Vermiculite      | 1318-00-9 | 5-10%  |

#### SECTION IV – FIRST AID

Eyes: Immediately flush with plenty of water for at least 15 minutes. Remove contact lens if easy to do so. Get **immediate** medical attention.

Ingestion: Do not induce vomiting. Rinse material from mouth. Immediately call POISON CENTER or doctor.

Inhalation: Remove endangered person to fresh air. Seek medical attention.

Skin: Flush with plenty of water. Remove contaminated clothing. Seek medical attention if required. Wash clothing before reuse.

#### SECTION V – FIRE FIGHTING MEASURES

Product is nonflammable. Use an extinguishing media suitable for the surrounding fire.

Water, foam, dry chemical, and carbon dioxide are suitable media.

This product is soluble in water. It is corrosive and damaging to eyes, skin, and mucous membranes.

Decomposition products include sodium oxides. This product reacts with amphoteric metals such as zinc, aluminum, and tin, evolving hydrogen gas.

Wear self contained breathing apparatus with full face protection and full protective gear.

#### SECTION VI – ACCIDENTAL RELEASE MEASURES

Wear proper protective equipment including respiratory protection as required. Avoid contact with eyes, skin, or clothing. Do not breathe dust. Avoid dust formation. Avoid letting product enter drains or entering environment.

Sweep up and place contaminated material in a storage container suitable for corrosive materials.

#### SECTION VII – HANDLING AND STORAGE

Always practice safe laboratory procedures. Wear eye protection, protective gloves, and a lab coat, apron, or other protective clothing. Avoid dust formation. If necessary wear respiratory protection.

Keep container tightly closed. Store in a dry area suitable for a corrosive material.

#### SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure

| Component        | ACGIH TCV                  | OSHA PEL                                             |
|------------------|----------------------------|------------------------------------------------------|
| Sodium Hydroxide | Ceiling 2mg/m <sup>3</sup> | Ceiling 2mg/m <sup>3</sup><br>TWA 2mg/m <sup>3</sup> |

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#### Engineering

Use in well ventilated area. Provide eye wash stations and a water source or safety shower. Provide secure, lockable, dry area for storage.

#### Personal Protective Equipment

Eyes: Wear safety glasses, goggles, face shield, or mask

Body: Wear protective gloves (Nitrile, Neoprene), chemically resistant shoes or boots, lab coat, apron, coveralls as suited to exposure level.

Respiratory Protection: Wear suitable dust mask or full face mask respirator as necessitated by working conditions

## **SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: Tan, Light Brown

Odor: Odorless

Odor Threshold: No Data Available

pH: 14

Melting Point: 318°C

Boiling Point: 1390°C

Flash Point: Not Applicable

Evaporation Rate: No Data Available

Flammability: No Data Available

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Relative Density: 2.13

Bulk Density: 1.1

Solubility: Very soluble in water

## **SECTION X – STABILITY AND REACTIVITY**

Stability: Stable when handled and stored properly, product will absorb moisture and react with atmospheric carbon dioxide.

Conditions to Avoid: Unnecessary exposure to air or water, creation of dust, unintended contact with incompatible materials

Incompatible Materials: Strong acids, organic halogen compounds, amphoteric metals such as aluminum, zinc, tin, lead

Possibility of Hazardous Reactions: None under proper condition of storage and handling

Hazardous Decomposition Products: Sodium Oxides

## **SECTION XI – TOXICOLOGICAL INFORMATION**

#### Toxicity:

| <u>Component:</u> | <u>LD50</u> | <u>LD50 Dermal</u> | <u>LC50</u> |
|-------------------|-------------|--------------------|-------------|
| Sodium Hydroxide  | Not Listed  | 1350 mg/kg rabbit  | Not Listed  |

Sodium Hydroxide is capable of causing severe destruction of tissue by all routes of exposure. The extent of tissue damage depends on the amount or chemical and duration of exposure.

Eyes: Contact with eyes may result in irreversible damage, including blindness.

Skin: Severe corrosion of the skin is possible. Chemical burns and ulceration may result.

Ingestion: Severe cases may result in chemical burns to mouth, throat, esophagus, and gastrointestinal tract.

Inhalation: Severe cases may result in damage to mucous membranes, upper respiratory tract, and lungs.

Carcinogenicity: Not known to be a carcinogen.

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#### **SECTION XII – ECOLOGICAL INFORMATION**

##### Aquatic Toxicity:

|                                       |      |         |     |
|---------------------------------------|------|---------|-----|
| Carassius auratus<br>(Goldfish)       | LC50 | 160mg/L | 24H |
| Gambusia affinis<br>(Mosquito fish)   | LC50 | 189mg/L | 48H |
| Ceriodaphnia cf Dubia<br>(Water flea) | LC50 | 40mg/L  | 48H |

##### Persistence & Degradability:

Sodium Hydroxide Solid will deliquesce and react with Carbon Dioxide when exposed to the atmosphere, forming Sodium Carbonate.

Sodium Hydroxide is very soluble and would be expected to be as mobile as the water component of any soil. It would react with available organic acids and with Carbon Dioxide, through exposure to the atmosphere. Due to the high water solubility of Sodium Hydroxide, it would not be expected to bioaccumulate, nor should it be expected to persist in an aquatic environment.

#### **SECTION XIII – DISPOSAL**

Disposal must be in accordance with local, regional, and national regulations.

#### **SECTION XIV – TRANSPORT INFORMATION**

UN Number: 1823  
UN Shipping Name: Sodium Hydroxide  
Transport Hazard: Class 8, Corrosive  
Packing Group: PG II

DOT: UN1823 Class 8 PGII  
SODIUM HYDROXIDE, SOLID  
RQ – 1,000 lbs

IATA: UN1823 Class 8 PGII  
SODIUM HYDROXIDE, SOLID

IMDG/IMO: UN1823 Class 8 PGII  
SODIUM HYDROXIDE, SOLID



#### **SECTION XV – REGULATORY INFORMATION**

SARA 311/312

#### **SECTION XVI – OTHER INFORMATION / DATE OF PREPARATION / LAST REVISION**

Date of Preparation: September 15, 2015

Date of Last Revision: September 27, 2018