

Revision date: 08-25-2014

# SAFETY DATA SHEET

## 1. Identification

Product identifier: ASCARITE II®

Other means of identification

Product No.: 0928

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

## Hazard classification

## Physical hazards

Corrosive to metals Category 1

**Health hazards** 

Acute toxicity (Oral)

Acute toxicity (Dermal)

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity - single

Category 3

Category 1

Category 1

Category 3

exposure

## **Environmental hazards**

Acute hazards to the aquatic Category 3 environment

## Label elements

Hazard symbol:



Signal word: Danger



Revision date: 08-25-2014

**Hazard statement:** May be corrosive to metals.

Toxic if swallowed.

Harmful in contact with skin.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Harmful to aquatic life.

## **Precautionary statement**

**Prevention:** Keep only in original container. Wear protective gloves/protective

clothing/eye protection/face protection. Do not breathe

dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area. Avoid release to the environment.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse

mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower. Wash contaminated clothing before

reuse. Absorb spillage to prevent material damage.

Storage: Store locked up. Store in corrosive resistant container with a resistant inner

liner. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM HYDROXIDE		1310-73-2	90 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Call a physician or poison control center immediately. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't

get into the lungs.

**Inhalation:** Move to fresh air. If breathing stops, provide artificial respiration. If

breathing is difficult, give oxygen. Call a physician or poison control center

immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.



Revision date: 08-25-2014

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately. In case of irritation from airborne exposure, move to fresh air.

Get medical attention immediately.

Most important symptoms/effects, acute and delayed

**Symptoms:** Toxic if swallowed. Corrosive to skin and eyes. Causes digestive tract

burns.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed. Treat symptomatically.

5. Fire-fighting measures

**General fire hazards:** In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

Reacts with most metals to form flammable hydrogen gas.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Put on protective equipment before entering danger area. See Section 8 of the MSDS for Personal Protective Equipment. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning

up:

Neutralize spill area and washings with dilute acetic acid. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Collect in a non-combustible container for prompt disposal. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:** Inform authorities if large amounts are involved.

**Environmental precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid discharge into drains, water courses or onto

the ground.



Revision date: 08-25-2014

## 7. Handling and storage

**Precautions for safe handling:** Use personal protective equipment as required. Avoid breathing mists or

vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Wash hands thoroughly after handling. Do not eat, drink or smoke when using the product. See Section 8 of the MSDS for Personal Protective

Equipment.

Conditions for safe storage,

including any incompatibilities:

Do not store in metal containers. Keep container tightly closed. Store in a

well-ventilated place. Store in a dry place.

## 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
SODIUM HYDROXIDE	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate engineering controls

No data available.

## Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) 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. An eye wash and safety shower must be available in the

immediate work area.

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

Skin protection

**Hand protection:** Chemical resistant gloves

**Other:** Wear suitable protective clothing and gloves.

**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Provide eyewash station and safety shower. 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. Avoid contact with skin. Do

not get in eyes. Wash contaminated clothing before reuse.

## 9. Physical and chemical properties

#### **Appearance**

Physical state: Solid
Form: Granules
Color: Tan
Odor: Odorless



Revision date: 08-25-2014

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point: 1,388 °C

Initial boiling point and boiling range:

Flash Point:

Evaporation rate:

Flammability (solid, gas):

No data available.

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: 1.3 kPa

Vapor density: No data available.

Relative density: 0.9 (20 °C)

Solubility(ies)

Solubility in water: Appreciable

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.

No data available.

## 10. Stability and reactivity

**Reactivity:** Reacts violently with strong acids.

**Chemical stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Moisture. The substance is hygroscopic and will absorb water by contact

with the moisture in the air.

**Incompatible materials:** Aluminum. Metals. Acids.

**Hazardous decomposition** 

products:

Sodium oxides

## 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion:** Toxic if swallowed. May cause burns of the gastrointestinal tract if

swallowed.

**Inhalation:** May cause damage to mucous membranes in nose, throat, lungs and

bronchial system.

**Skin contact:** Causes severe skin burns.

**Eye contact:** Causes serious eye damage.



Revision date: 08-25-2014

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix (Rat): 136.8 mg/kg

**Dermal** 

**Product:** ATEmix (Rabbit): 1,420 mg/kg

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** Causes severe skin burns.

Serious eye damage/eye irritation

**Product:** Causes serious eye damage.

Respiratory or skin sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

## **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

## Germ cell mutagenicity

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific target organ toxicity - single exposure

**Product:** Respiratory tract irritation.

Specific target organ toxicity - repeated exposure

**Product:** None known.

**Aspiration hazard** 

Product: Not classified

Other effects: None known.



Revision date: 08-25-2014

## 12. Ecological information

## **Ecotoxicity:**

## Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

SODIUM HYDROXIDE LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality

**Aquatic invertebrates** 

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### Persistence and degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD** ratio

**Product:** No data available.

## Bioaccumulative potential

**Bioconcentration factor (BCF)** 

**Product:** No data available on bioaccumulation.

# Partition coefficient n-octanol / water (log Kow) Product: No data available.

Mobility in soil: No data available.

Other adverse effects: Harmful to aquatic organisms.

## 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.



Revision date: 08-25-2014

14. Transport information	
---------------------------	--

DOT

UN number: UN 1823

UN proper shipping name: Sodium hydroxide, solid, mixture

Transport hazard class(es)

Class(es): 8
Label(s): 8
Packing group: II
Marine Pollutant: No

**IMDG** 

UN number: UN 1823

UN proper shipping name: SODIUM HYDROXIDE, SOLID, MIXTURE

Transport hazard class(es)

Class(es): 8 Label(s): 8

EmS No.: F-A, S-B

Packing group: II
Marine Pollutant: No

**IATA** 

UN number: UN 1823

Proper Shipping Name: Sodium hydroxide, solid, mixture

Transport hazard class(es):

Class(es): 8
Label(s): 8

Marine Pollutant: No
Packing group: II

# 15. Regulatory information

#### **US federal regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):** 

SODIUM HYDROXIDE Reportable quantity: 1000 lbs.

# Superfund amendments and reauthorization act of 1986 (SARA)

## **Hazard categories**

X   Acute (Immediate)   Chronic (Delayed)   Fire   Reactive   Pressure Ge	enerating
---	-----------

## SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

# SARA 304 Emergency release notification

Chemical identity	RQ	
SODIUM HYDROXIDE	1000 lbs.	



Revision date: 08-25-2014

## SARA 311/312 Hazardous chemical

Chemical identity Threshold Planning Quantity

SODIUM HYDROXIDE

500 lbs

## SARA 313 (TRI reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

SODIUM HYDROXIDE Reportable quantity: 1000 lbs.

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

None present or none present in regulated quantities.

## **US state regulations**

## **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

## US. New Jersey Worker and Community Right-to-Know Act

SODIUM HYDROXIDE Listed

#### US. Massachusetts RTK - Substance List

SODIUM HYDROXIDE Listed

## US. Pennsylvania RTK - Hazardous Substances

SODIUM HYDROXIDE Listed

#### US. Rhode Island RTK

SODIUM HYDROXIDE Listed

#### **Inventory Status:**

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

On or in compliance with the inventory.

On or in compliance with the inventory.

Japan (ENCS) List:

China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory: Philippines PICCS:

US TSCA Inventory:
New Zealand Inventory of Chemicals:

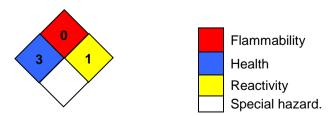
Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Not in compliance with the inventory.
On or in compliance with the inventory.
Not in compliance with the inventory.
On or in compliance with the inventory.
Not in compliance with the inventory.
On or in compliance with the inventory.
Not in compliance with the inventory.
Not in compliance with the inventory.

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

## **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date: SDS US - SDSMIX000904



Revision date: 08-25-2014

**Revision date:** No data available.

Version #: 1.0

Further information: No data available.

**Disclaimer:** THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA

SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH

JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED

HEREIN IS PROVIDED "AS IS," AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT

TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR

STATUTORY, INCLUDING WITHOUT LIMITATION<(>,<)> WARRANTIES

OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN

DETERMINING THE APPROPRIATENESS OF SUCH ISSUES.
ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR

EMPLOYEES.