

# SAFETY DATA SHEET

#### 1. Identification

Product identifier: Sodium Hydroxide, Pellets

#### Other means of identification Product No. 1772, 7708, 7690, 2722, 2718, 2728, 2722, 7001, 5565

Product No.: 7772, 7708, 7680, 3723, 3718, 3728, 3722, 7001, 5565, 5045

## Recommended use and restriction on use

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

#### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

Company Name: Address:	Avantor Performance Materials, Inc. 3477 Corporate Parkway, Suite 200
Talaphana	Center Valley, PA 18034
Telephone:	Customer Service: 855-282-6867
Fax:	
Contact Person: e-mail:	Environmental Health & Safety info@avantormaterials.com



Part #: CF1131

#### Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

#### 2. Hazard(s) identification

#### Hazard classification

Category 1
Category 1
Category 1

#### Unknown toxicity Acute toxicity, inhalation, dust or mist 100 % Unknown toxicity Chronic hazards to the aquatic 100 % environment Label elements

#### Hazard symbol:



Signal word:

Danger



Hazard statement:	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary stateme	nt
Prevention:	Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container. Wash hands thoroughly after handling.
Response:	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/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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

#### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*	
SODIUM HYDROXIDE		1310-73-2	90 - 100%	
* 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 without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation:	Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is not breathing If breathing is difficult, give oxygen.
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.
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.



#### Most important symptoms/effects, acute and delayed

Symptoms: Corrosive to skin and eyes.

#### Indication of immediate medical attention and special treatment needed

## 5. Fire-fighting measures

General fire hazards: No unusual fire or explosion hazards noted.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	The product reacts with water and will generate heat.		
Specific hazards arising from the chemical:	Fire may produce irritating, corrosive and/or toxic gases.		
Special protective equipment and	d 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	6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.		
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Neutralize spill area and washings with dilute acetic acid.		
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. 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.		
7. Handling and storage			

Precautions for safe handling:	Do not get in eyes, on skin, on clothing. Do not eat, drink or smoke when using the product. Do not taste or swallow. Avoid breathing dust or vapor.
	Use personal protective equipment as required. Wash hands thoroughly after handling.



#### 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.	
Respiratory protection:	In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.	
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 to remove contaminants. Discard contaminated footwear that cannot be cleaned.	

solution)

#### 9. Physical and chemical properties

#### Appearance

Physical state:	Solid
Form:	Solid
Color:	Colorless to white
Odor:	Odorless
Odor threshold:	No data available.
pH:	13 (0.5% aqueous
Melting point/freezing point:	323 °C
Initial boiling point and boiling range:	1,388 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
SDS_US - SDS00000947	



#### Upper/lower limit on flammability or explosive limits

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Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	2.13 (25 °C)
Solubility(ies)	
Solubility in water:	1,110 g/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	40 g/mol (HNaO)

## 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. The substance is hygroscopic and will absorb water by contact with the moisture in the air.
Conditions to avoid:	Avoid dust formation. Heat. Moisture.
Incompatible materials:	Oxidizing agents. Acids. Flammable liquid. Contact with metals may evolve flammable hydrogen gas.
Hazardous decomposition products:	Sodium oxides

## 11. Toxicological information

Information on likely routes of e Ingestion:	exposure 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.
Information on toxicological effects	

## Information on toxicological effects

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

Oral Product:	LD 50 (Rat): 130 - 340 mg/kg
Dermal Product:	LD 50 (Rabbit): 1,350 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 irritatio Product:	n Causes serious eye damage.
Respiratory or skin sensitizatior Product:	n 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 P No carcinogenic component	rogram (NTP) Report on Carcinogens: s identified
US. OSHA Specifically Reg No carcinogenic component	gulated Substances (29 CFR 1910.1001-1050): s identified
Germ cell mutagenicity	
In vitro Product:	No mutagenic components identified
In vivo Product:	No data available.
Reproductive toxicity Product:	No components toxic to reproduction
Specific target organ toxicity - s Product:	<b>ingle exposure</b> None known.
Specific target organ toxicity - r Product:	epeated exposure None known.
Aspiration hazard Product:	Not classified
Other effects:	None known.
12. Ecological information	

## Ecotoxicity:

## Acute hazards to the aquatic environment:

Fish Product:	No data available.
Sodium Hydroxide Sodium Hydroxide	LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality
Aquatic invertebrates Product:	No data available.



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roduct is water soluble and may spread in water systems.
ful to aquatic organisms. The product may affect the acidity (pH-factor) ter with risk of harmful effects to aquatic organisms.
arge, treatment, or disposal may be subject to national, state, or local
emptied containers retain product residue, follow label warnings even container is emptied.

## DOT

UN number:	UN 1823
UN proper shipping name:	Sodium hydroxide, solid
Transport hazard class(es)	-
Class(es):	8
Label(s):	8
Packing group:	II
Marine Pollutant:	No



UN 1823
SODIUM HYDROXIDE, SOLID
8
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F-A, S-B
II
No
UN 1823
Sodium hydroxide, solid
•
8
8
No

#### 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 Generating 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. 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**

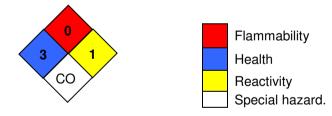
US. California Proposition 65 No ingredient regulated by CA Prop 65 present.



US. New Jersey Worker a SODIUM HYDROXIDE	and Community Rig Listed	ght-to-Know Act
US. Massachusetts RTK SODIUM HYDROXIDE		
US. Pennsylvania RTK - SODIUM HYDROXIDE	Hazardous Substan Listed	nces
US. Rhode Island RTK SODIUM HYDROXIDE	Listed	
Inventory Status: Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical St Korea Existing Chemicals Inv. ( Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Cher Japan ISHL Listing: Japan Pharmacopoeia Listing:	KECI):	On or in compliance with the inventory On or in compliance with the inventory On or 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 or 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 COR: Corrosive

Issue date:	06-02-2014
Revision date:	No data available.
Version #:	2.0
Further information:	No data available.



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