

# Material Safety Data Sheet

**Natrium Hydroxide - parels - cosmetisch - OGR19**  
**Sodium Hydroxide - pearls - cosmetic - OGR19**

<b>Section 1. Coemical Product and Company Identification</b>		<b>Page Number: 1</b>	
<b>Trade Name:</b>	Caustic Soda Pearls	<b>CAS #:</b>	1310-73-2
<b>Synonym:</b>	Caustic Soda Beads/ Prills/ Pellets	<b>EC #:</b>	215-185-5
<b>Chemical Name:</b>	Sodium Hydroxide, Solid	<b>Index #:</b>	011-002-00-6
<b>Chemical Formula:</b>	NaOH	<b>UN #:</b>	1823
<b>Molecular Weight:</b>	40	<b>Packaging Group:</b>	II
<b>Chemical Family:</b>	Alkali	<b>EMERGENCY CALL:+31(0)30/274.88.88</b>	
<b>Supplier Information:</b>	SoapQueen vof Veilingdreef 20 4614RX Bergen op Zoom Nederland TEL: +31 (0)164 254900 website: <a href="http://www.soapqueen.nl">www.soapqueen.nl</a>		

<b>Section 2. Composition and Information on Ingredients</b>				
<b>Ingredients Name</b>	<b>CAS Number</b>	<b>TWA(mg/m<sup>3</sup>)</b>	<b>CEIL(mg/m<sup>3</sup>)</b>	<b>% By Weight or Volume</b>
Sodium Hydroxide	1310-73-2	2	2	100

<b>Section 3. Hazards Identification</b>
<p style="text-align: center;"><b>Most Important Hazards Information</b></p> <p style="text-align: center;">White, Odorless beads. Causes burns to skin and eyes. Harmful if inhaled or swallowed. Corrosive, Hygroscopic.</p>
<p><b>Potential Acute Health Effects</b></p> <p>Very hazardous in case of skin contact (corrosive, irritant, pormoating), of eye contact (irritant, corrosive), of ingestion, of inhalation. Tho amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, charactorized by burning, snoozing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is charactorized by redness, watering, and itching. Skin inflammation is charactorized by itching, scaling, reddening, or, occasionally, blistering.</p>

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<b>Caustic Soda Pearls</b> <span style="float: right;"><b>Page Number: 2</b></span>

**Potential Chronic Health Effects**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

**Section 4. First Aid Measures**

<b>Eye Contact:</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<b>Serious Skin Contact:</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Serious Inhalation:</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. <b>WARNING:</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Serious Ingestion:</b>	Not available.

**Section 5. Fire and Explosion Data**

<b>Flammability of the Product:</b>	Non-flammable
<b>Auto-Ignition Temperature:</b>	Not applicable
<b>Flash Points:</b>	Not applicable
<b>Flammable Limits:</b>	Not applicable
<b>Products of Combustion:</b>	Not applicable
<b>Fire Hazards in Presence of Various Substances:</b>	Not applicable
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available.
	Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions:</b>	Not applicable

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**Special Remarks on Fire Hazards**

Sodium hydroxide + zinc metal dust causes ignition of the latter. Under proper conditions of temperature, pressure and state of division, it can ignite or react violently with a cetaldehyde, allyl alcohol, allyl chloride, benzene-1,4-diol, chlorine trifluoride, 1,2 dichlorethylene, nitroethane, nitromethane, nitroparaffins, nitropropane, cinnamaldehyde, 2,2-dichloro-3,3-dimethylbutane. Sodium hydroxide in contact with water may generate enough heat to ignite adjacent combustible materials. Phosphorous boiled with NaOH yields mixed phosphines which may ignite spontaneous in air. Sodium hydroxide and cinnamaldehyde + heat may cause ignition

**Special Remarks on Explosion Hazards**

Sodium hydroxide reacts to form explosive products with ammonia + silver nitrate. Benzene extract of allyl benzenesulfonate prepared from allyl alcohol, and benzene sulfonyl chloride in presence of aqueous sodium hydroxide, under vacuum distillation, residue darkened and exploded. Sodium Hydroxide + impure tetrahydrofuran, which can contain peroxides, can cause serious explosions. Dry mixtures of sodium hydroxide and sodium tetrahydroborate liberate hydrogen explosively at 230-270 °C. Sodium Hydroxide reacts with sodium salt of trichlorophenol + methyl alcohol + trichlorobenzene + heat to cause an explosion.

**Section 6. Accidental Release Measures**

<b>Small Spill:</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
<b>Large Spill:</b>	Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

**Section 7. Handling and Storage**

<b>Precautions :</b>	Keep locked up. Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture.
<b>Storage:</b>	Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store in high moisture area.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls :</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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<b>Personal Protection:</b>	Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill:</b>	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits:</b>	STEL: 2 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]TWA: 2 CEIL: 2 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States]CEIL: 2 (mg/m <sup>3</sup> ) from NIOSH Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

<b>Physical state and appearance:</b>	Solid
<b>Odor:</b>	Odorless.
<b>Taste:</b>	Not available.
<b>Color:</b>	White
<b>Molecular Weight:</b>	40 g/mole
<b>pH (1% soln/water):</b>	13.5 [Basic.]
<b>Boiling Point:</b>	1388°C (2530.4°F)
<b>Melting Point:</b>	323°C (613.4°F)
<b>Heat Capacity:</b>	2.01 J/g.K (25 °C)
<b>Heat of Fusion:</b>	167.5 J/g(25 °C)
<b>Standard Heat of Formation:</b>	10.67 kJ/g(25 °C)
<b>Critical Temperature:</b>	Not available.
<b>Specific Gravity:</b>	1.15 (Water = 1)
<b>Vapor Pressure:</b>	Not applicable.
<b>Vapor Density:</b>	Not applicable.
<b>Volatility:</b>	Not applicable.
<b>Odor Threshold:</b>	Not applicable.
<b>Water/Oil Dist. Coeff.:</b>	Not applicable.
<b>Ionicity (in Water):</b>	Not applicable.
<b>Dispersion Properties:</b>	See solubility in water.
<b>Solubility:</b>	Easily soluble in cold water

### Section 10. Stability and Reactivity Data

<b>Stability:</b>	The product is stable.
<b>Instability Temperature:</b>	Not available.
<b>Conditions of Instability:</b>	Incompatible materials, moisture, moist air
<b>Incompatibility with various substances</b>	Highly reactive with metals. Reactive with oxidizing agents, reducing agents, acids, alkalis, moisture.
<b>Corrosivity:</b>	Not available.

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<b>Special Remarks on Reactivity</b>	<p>Hygroscopic. Much heat is evolved when solid material is dissolved in water. Therefore cold water and caution must be used for this process. Sodium hydroxide solution and octanol + diborane during a work-up of a reaction mixture of oxime and diborane in tetrahydrofuran is very exothermic, a mild explosion being noted on one occasion.</p> <p>Reactive with water, acids (mineral, non-oxidizing, e.g. hydrochloric, hydrofluoric acid, muriatic acid, phosphoric), acids (mineral, oxidizing e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), acids (organic e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), aldehydes (e.g. acetaldehyde, acrolein, chloralhydrate, foraldehyde), carbamates (e.g. carbanolate, carbofuran), esters (e.g. butyl acetate, ethyl acetate, propylformate), halogenated organics (dibromoethane, hexachlorobenzene, methyl chloride, trichloroethylene), isocyanates (e.g. methyl isocyanate), ketones (acetone, acetophenone, MEK, MIBK), acid chlorides, strongbases, strong oxidizing agents, strong reducing agents, flammable liquids, powdered metals and metals (i.e. aluminum, tin, zinc, hafnium, raney nickel), metals (alkali and alkaline e.g. cesium, potassium, sodium), metal compounds (toxic e.g. beryllium, lead acetate, nickel carbonyl, tetraethyl lead), nitrides (e.g. potassium nitride, sodium nitride), nitriles (e.g. acetonitrile, methyl cyanide), nitro compounds (organic e.g. nitrobenzene, nitromethane), acetic anhydride, chlorohydrin, chlorosulfonic acid, ethylene cyanohydrin, glyoxal, hydrosulfuric acid, oleum, propiolactone, acylonitrile, phorosous pentoxide, chloroethanol, chloroform-methanol, tetrahydroborate, cyanogen azide, 1,2,4,5 tetrachlorobenzene, cinnamaldehyde. Reacts with formaldehyde hydroxide to yield formic acid, and hydrogen.</p>
<b>Special Remarks on Corrosivity</b>	Very caustic to aluminum and other metals in presence of moisture.
<b>Polymerization</b>	Will not occur

### Section 11. Toxicological Information

<b>Routes of Entry:</b>	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals:</b>	<p>LD<sub>50</sub>: 40 mg/kg [Intraperitoneal-Mouse]. 1350 mg/kg [Skin-Rabbit]. 104-340 mg/kg [Oral-Rat].</p> <p>LC<sub>50</sub>: 45 mg/L.96hr [Fish].</p>
<b>Chronic Effects on Humans:</b>	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.
<b>Other Toxic Effects on Humans:</b>	Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeater), of eye contact (corrosive), of ingestion,
<b>Special Remarks on Toxicity to Animals:</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans:</b>	May affect genetic material. Investigation as a mutagen (cytogenetic analysis)
<b>Special Remarks on other Toxic Effects on Humans:</b>	Acute Potential Health Effects: Skin: May be harmful if absorbed through skin. Causes severe skin irritation and burns. May cause deep enterating ulcers of the

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skin. Eyes: Causes severe eye irritation and burns. May cause chemical conjunctivitis and corneal damage. Inhalation: Harmful if inhaled. Causes severe irritation of the respiratory tract and mucous membranes with coughing, burns, breathing difficulty, and possible coma. Irritation may lead the chemical pneumonitis and pulmonary edema. Causes chemical burns to the respiratory tract and mucous membranes. Ingestion: May be fatal if swallowed. May cause severe and permanent damage to the digestive tract. Causes severe gastrointestinal tract irritation and burns. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent destruction of the esophagus and digestive tract.


**Section 12. Ecological Information**

<b>Ecotoxicity:</b>	Not available.
<b>BOD5 and COD:</b>	Not available.
<b>Products of Biodegradation:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation:</b>	The product itself and its products of degradation are not toxic.
<b>Special Remarks on the Products of Biodegradation:</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Disposal:</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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**Section 14. Transport Information**


<b>DOT Classification:</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Identification</b>	Sodium hydroxide, solid UN NO: 1823 PG: II
<b>Special Provisions for Transport</b>	Air transport: IATA/ICAO- Class 8, UN 1823, PG II.
<b>DOT (Pictograms)</b>	

**Section 15. Regulatory Information**

<b>Other Regulations:</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.	
<b>Other Classifications:</b>	WHMIS (Canada) CLASS	E: Corrosive solid
	DSCL (EEC)	R35- Causes severe burns S26- In case of contact with eyes, rinse immediately with


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plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S38- In case of insufficient ventilation, wear suitable respiratory equipment. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):	Health Hazard	3	National Fire Protection Association (U.S.A.)	Health		Flammability Reactivity Specific hazard
	Fire Hazard	0				
	Reactivity	2				
	Personal Protection	j				

<b>WHMIS (Canada)(Pictograms):</b>	
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<b>DSCL (Europe)(Pictograms):</b>	
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<b>ADR (Europe)(Pictograms):</b>	
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<b>Protective Equipment:</b>		Gloves
		Synthetic apron
		Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
		Splash goggles.

**Section 16. Other Information**

<b>Prepared By</b>	Soap Queen,
<b>Notice to Reader</b>	All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Soap Queen assumes no responsibility for the completeness or accuracy of the information contained herein.

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