



SAFETY DATA SHEET

According to EC Directive 2001/58/EC

Product ID: 0040
Revision Date: 07/27/2006
Revision Number: 17

English

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the Substance/Preparation:

Product Name: Pels® Caustic Soda Beads
Product Code: 0040
SYNONYMS: Sodium Hydroxide; Anhydrous Sodium Hydroxide, Caustic Soda; NaOH
Use of the Substance: Chemical Intermediate.

Company/Undertaking Identification:

Manufactured By: PPG Industries, Inc.
One PPG Place
Pittsburgh, Pennsylvania 15272
USA
In Europe: PPG Industries France
3 Z.A.E. Les Dix Muids
P.O. Box 89
59583 Marly Cedex France
Emergency Telephone Number: ++1 412 434 4515 (USA)
++32 1 458 4545 (Europe)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material/ CAS Number</u>	<u>CAS-No</u>	<u>Percent</u>	<u>EC-No</u>	<u>Classification</u>
Sodium Hydroxide 1310-73-2	1310-73-2	96-100	215-185-5	C;R35

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Classification: C, R35

Most important hazards:

Causes severe burns.
Causes severe caustic burns to skin and eyes.

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4. FIRST AID MEASURES

General Advice:	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.
Inhalation:	Move to fresh air. Call a physician immediately.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.
Eye Contact:	Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.
Ingestion:	Remove from exposure, lie down. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	The product itself does not burn.
Extinguishing media which must not be used for safety reasons:	None.
Specific Hazards:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazardous Decomposition Products:	Gives off hydrogen by reaction with metals.
Special Protective Equipment for Firefighters:	In the event of fire, wear self contained breathing apparatus. Use personal protective equipment.
Specific Methods:	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Methods for Clean Up:	(Solid) Pick up and transfer to properly labelled containers. (Aqueous solution) Dam up. Dilute with plenty of water. Neutralise with acid.. Neutralization is normally necessary before waste water is discharged into water treatment plants.

7. HANDLING AND STORAGE

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Handling:	Ensure adequate ventilation. Avoid dust formation. Wear personal protective equipment. When diluting, always add the caustic soda to the water, never the other way around.
Storage:	Keep tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.
Incompatible Products:	Protect against organic materials, metals, acids, and food stuffs. Keep away from food, drink and animal feeding stuffs.
Specific use(s):	Take notice of the directions of use on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Exposure Limit Values:

Material/ CAS Number	ACGIH	The United Kingdom	Belgium	France	Germany
Sodium Hydroxide 1310-73-2	2 mg/m ³ Ceiling	2 mg/m ³ STEL	2 mg/m ³ VLE	2 mg/m ³ VME	2 mg/m ³ TWA inhalable fraction

Material/ CAS Number	The Netherlands	Ireland	Norway	Italy	Switzerland
Sodium Hydroxide 1310-73-2	2 mg/m ³ Ceiling	2 mg/m ³ STEL	2 mg/m ³ Ceiling	Not Established	2 mg/m ³ MAK inhalable 2 mg/m ³ STEL inhalable, 15min

Key: TWA - 8-hour Time-Weighted Average. STEL - 15-minute Short-Term Exposure Limit. VLE - French Short-Term Exposure Limit. VME - French Occupational Exposure Limit (8 hr). MAK - Maximum Permissible Concentration. MAC - The Netherlands Occupational Exposure Limit (8 hr). OEL - Occupational Exposure Limit.

Personal Protective Equipment:

Respiratory Protection:	Breathing apparatus with filter.
Hand Protection:	Impervious gloves. Nitrile rubber. Neoprene. Natural rubber.
Break Through Time:	No data available.
Eyes:	Tightly fitting safety goggles. Face-shield.
Skin:	Long sleeved clothing. Chemical resistant apron. Boots.
Hygiene Measures:	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Environmental Exposure Controls:	Prevent product from entering drains. Should not be released into the environment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Physical State:	Solid Beads
Appearance:	White. to Off-white.
Odor:	NONE

Important Health Safety and Environmental Information:

Flash Point (°C):	Does not flash.
Autoignition Temperature:	No data available.
Vapour Pressure: (mm Hg)	No data available.
Vapor Density (Air=1):	Non-volatile
Evaporation Rate:	Non-volatile
Water Solubility (%):	347g/100g water @ 100°C
pH:	Strongly basic

Other Information:

Boiling Point or Range (°C):	1390°C
Melting Point or Range(°C):	310-320°C
Specific Gravity (Water=1):	2.130
Bulk Density (kg/m ³):	70 lbs/cu.ft. (loose)
% Volatile (by weight):	Non-volatile

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions. Hazardous polymerisation does not occur.
Conditions to Avoid:	Exposure to moisture.
Materials to Avoid:	Magnesium. Aluminium. Zinc. Chromium. Tin. Brass powder. Bronze.
Hazardous Decomposition Products:	Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Local Effects: Extremely corrosive and destructive to tissue. Causes severe caustic burns to skin and eyes. Small amounts splashed into eyes can cause irreversible tissue damage and blindness Inhalation causes burns of the upper digestive and respiratory tracts. Ingestion causes burns of the upper digestive and respiratory tracts. May be fatal if swallowed.

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Material/ CAS Number	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/l)
Sodium Hydroxide 1310-73-2	240mg/kg (rat) High toxicity.	1350mg/kg (rabbit) Slight to very low toxicity.	No data available.

Dermal Sensitisation Data for this Product: No data available.

Respiratory Sensitisation Data for this Product: No data available.

LONG TERM TOXICITY: No data available. Avoid repeated exposure.

Ingredient Target Organ/Chronic Effects: - None known

Mutagenicity Toxicity: This has not been tested for this product.

Reproductive Toxicity: This has not been tested for this product.

Specific Effects: Not carcinogenic (IARC, OSHA, ACGIH, NTP).

Key: IARC - International Agency for Research on Cancer. OSHA - Occupational Safety and Health Administration (US). ACGIH - American Conference of Governmental Industrial Hygienists. NTP - National Toxicology Program.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. LC50/96h/bluegill sunfish = 240ug/l

ENVIRONMENTAL FATE:

Mobility: Completely soluble.
Biodegradation: No information available.
Bioaccumulation: No information available.

PHYSICAL / CHEMICAL:

Hydrolysis: No information available.
Photolysis: No information available.

ADDITIONAL INFORMATION: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products: Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

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Further Information:

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

ADR/RID:

UN Number:	UN1823
Proper shipping name:	Sodium Hydroxide, Solid
Hazard Class:	8
Packaging Group:	II

ICAO/IATA:

UN Number:	UN1823
Proper shipping name:	Sodium Hydroxide, Solid
Hazard Class:	8
Packaging Group:	II

IMDG:

UN Number:	UN1823
Proper Shipping Name:	Sodium Hydroxide, Solid
Hazard Class:	8
Packaging Group:	II
Marine Pollutant:	None

US DOT:

UN Number:	UN1823
Proper Shipping Name:	Sodium Hydroxide, Solid
Hazard Class:	8 (Corrosive)
Packing Group:	II
USA-RQ, Hazardous Substance and Quantity:	(sodium hydroxide 1310-73-2) 1000 lbs./454 kg
Marine Pollutant:	None
Additional Information:	USA Shipments Only - Hazardous Substances are regulated in the USA when shipped above their Reportable Quantity (RQ).

15. REGULATORY INFORMATION

EC LABELING REQUIREMENTS: This substance is classified and labelled according to Annex I of Directive 67/548/EEC, as amended

EC Label**Indication of Danger:**

C - Corrosive.

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Product Name: Pels® Caustic Soda Beads

**Risk Phrases:**

- R35 - Causes severe burns.

Safety Phrases:

- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

EU EINECS: All components in this product are listed on EINECS or meet the polymer definition.

16. OTHER INFORMATION

Text of R Phrases Mentioned in Section 2:**Risk Phrases:**

- R35 - Causes severe burns.

Reason for Revision:

Date. Edition. Section 8 has been updated. Section 15 has been updated. Section 16 has been updated.

Prepared By:

Product Safety, Chemicals

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

The information contained in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. - The provision of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

End of Safety Data Sheet