SAFETY DATA SHEET
SODIUM HYDROXIDE PELLETS AR

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: SODIUM HYDROXIDE PELLETS AR
Product number: 1547
REACH registration number: 01-2119457892-27-XXXX
CAS number: 1310-73-2
EU index number: 011-002-00-6
EC number: 215-185-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory reagent. For use in industrial installations or professional treatment only.
Uses advised against: No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier: Reagent Chemical Services
18 Aston Fields Road
Whitehouse Industrial Estate
Runcorn
Cheshire WA7 3DL

T: 01928 716903 (08.30 - 17.00)
F: 01928 716425
E: info@reagent.co.uk

1.4. Emergency telephone number

Emergency telephone: OHES Environmental Ltd 24-7
Tel. 0333 333 9939 (24 hour)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Health hazards: Skin Corr. 1A - H314 Eye Dam. 1 - H318
Environmental hazards: Not Classified

2.2. Label elements

EC number: 215-185-5
SODIUM HYDROXIDE PELLETS AR

Pictogram

Signal word Danger

Hazard statements H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P313 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with regional regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name SODIUM HYDROXIDE PELLETS AR
REACH registration number 01-2119457892-27-XXXX
EU index number 011-002-00-6
CAS number 1310-73-2
EC number 215-185-5

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Immediate first aid is imperative. Show this Safety Data Sheet to the medical personnel.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Skin contact Immediately remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention immediately.

Eye contact Rinse with water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.
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Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Acute: Coughing. Irritation of the respiratory system. Delayed: Prolonged or repeated exposure to dusts may cause burns to the respiratory system with the possibility of lung edema.

Ingestion

Acute: Burns in the mouth, throat, stomach and gastrointestinal tract. Risk of perforation. Delayed: Scarring of the digestive system with possible blockages due to internal damage. Coma and death can occur following severe exposure.

Skin contact

Acute: Chemical burns. Delayed: Scarring of the skin.

Eye contact

Acute: Severe burns. Delayed: Permanent eye damage. Possible blindness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Have eye wash facilities in place close to the operators' work area to provide immediate first aid prior to medical attention. All cases of exposure require immediate medical attention.

Specific treatments

No specific chemical antidote is known to be required after exposure to this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

Unsuitable extinguishing media

Do not use water, if avoidable.

5.2. Special hazards arising from the substance or mixture

Specific hazards

The product is non-combustible.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Hydrogen. Oxides of the following substances: Sodium.

5.3. Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Fight fire from safe distance or protected location. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear chemical protective suit. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after dealing with a spillage.

For emergency responders

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
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Environmental precautions
Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Do not touch or walk into spilled material. Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Do not breathe dust. Wash hands thoroughly after handling.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Provide eyewash station. Wash hands thoroughly after handling. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry and cool place. Protect containers from damage.

Storage class
Corrosive storage.

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits
Short-term exposure limit (15-minute): WEL 2 mg/m³
WEL = Workplace Exposure Limit

DNEL
Workers - Inhalation; Long term local effects: 1 mg/m³
General population - Inhalation; Long term local effects: 1 mg/m³

8.2. Exposure controls

Protective equipment
Provide adequate general and local exhaust ventilation.

Appropriate engineering controls
Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Eye/face protection

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**Hand protection**
Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374. The breakthrough time for any glove material may be different for different glove manufacturers. For exposure up to 8 hours, wear gloves made of the following material: Neoprene. Butyl rubber. Viton rubber (fluoro rubber). Thickness: ~ 0.45 mm

**Other skin and body protection**
Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures**
Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination.

**Respiratory protection**
If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Check that the respirator fits tightly and the filter is changed regularly.

**Environmental exposure controls**
Store in a demarcated bunded area to prevent release to drains and/or watercourses.

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Viscosity

Technically not feasible.

Explosive properties

Not considered to be explosive.

Explosive under the influence of a flame

Not considered to be explosive.

Oxidising properties

Does not meet the criteria for classification as oxidising.

9.2. Other information

Particle size

No specific test data are available.

Molecular weight

40

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

The following materials may react violently with the product: Strong acids. Powdered metal. Strong oxidising agents.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air. Reacts strongly with water. Reacts violently with strong acids.

10.4. Conditions to avoid

Conditions to avoid

Avoid contact with acids. Avoid contact with strong oxidising agents. Never add water directly to this product as it may cause a vigorous reaction or boiling. Reacts strongly with water.

10.5. Incompatible materials

Materials to avoid

Avoid contact with the following materials: Strong acids. Strong alkalis. Alkaline earth metals. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products

Oxides of the following substances: Sodium. Hydrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

Causes severe skin burns and eye damage.

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅₀ 325 mg/kg, Oral, Rabbit REACH dossier information.

Acute toxicity - dermal

Notes (dermal LD₅₀)

Conclusive data but not sufficient for classification. REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

750 µg/L, Inhalation, Rat REACH dossier information.

Skin corrosion/irritation

Corrosive to skin.

Serious eye damage/irritation

Corrosivity to eyes is assumed. REACH dossier information.
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**Respiratory sensitisation**
Based on available data the classification criteria are not met.

**Skin sensitisation**
Based on available data the classification criteria are not met.

**Germ cell mutagenicity**
This substance has no evidence of mutagenic properties.

**Skin sensitisation**
Based on available data the classification criteria are not met.

**Carcinogenicity**
There is no evidence that the product can cause cancer.

**Reproductive toxicity**
Does not contain any substances known to be toxic to reproduction.

**Specific target organ toxicity - single exposure**
Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**
Based on available data the classification criteria are not met.

**Inhalation**
May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Burns can occur.

**Ingestion**
This product is strongly corrosive. May cause chemical burns in mouth, oesophagus and stomach.

**Skin contact**
This product is corrosive. Causes severe burns.

**Eye contact**
Causes severe burns. Causes serious eye damage. Immediate first aid is imperative.

**Acute and chronic health hazards**
This product is corrosive.

**Route of entry**
Skin and/or eye contact Ingestion

**Target organs**
Skin Eyes Respiratory system, lungs Gastro-intestinal tract

**Medical symptoms**
Chemical burns.

**SECTION 12: Ecological Information**

**Ecotoxicity**
The ecotoxicity of this substance has been assessed during REACH registration

**12.1. Toxicity**

**Acute toxicity - fish**
LCo₅₀, 96 hours: 45.4 mg/l, Onchorhynchus mykiss (Rainbow trout) Supplier's information.

**Acute toxicity - aquatic invertebrates**
EC₅₀, 48 hours: 40.4 mg/l,

**Short term toxicity - embryo and sac fry stages**
Not available.

**12.2. Persistence and degradability**
SODIUM HYDROXIDE PELLETS AR

Persistence and degradability  The product contains inorganic substances which are not biodegradable.

Stability (hydrolysis)  Scientifically unjustified.

Biological oxygen demand  No information available.

Chemical oxygen demand  No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential  Bioaccumulation is unlikely.

Partition coefficient  No specific test data are available.

12.4. Mobility in soil

Mobility  The product is water-soluble and may spread in water systems.

Adsorption/desorption coefficient  Scientifically unjustified.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment  This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects  None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information  The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

Disposal methods  Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)  1823
UN No. (IMDG)  1823
UN No. (ICAO)  1823
UN No. (ADN)  1823

14.2. UN proper shipping name

Proper shipping name (ADR/RID)  SODIUM HYDROXIDE, SOLID
Proper shipping name (IMDG)  SODIUM HYDROXIDE, SOLID
Proper shipping name (ICAO)  SODIUM HYDROXIDE, SOLID
Proper shipping name (ADN)  SODIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

ADR/RID class  8
ADR/RID classification code  C6
SODIUM HYDROXIDE PELLETS AR

ADR/RID label 8
IMDG class 8
ICAO class/division 8
ADN class 8

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ADN packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
IMDG Code segregation group 18. Alkalis
EmS F-A, S-B
ADR transport category 2
Hazard Identification Number (ADR/RID) 80
Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
Health and Safety at Work etc. Act 1974 (as amended).

EU legislation

Guidance
Workplace Exposure Limits EH40.
SODIUM HYDROXIDE PELLETS AR

Authorisations (Title VII Regulation 1907/2006) No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment
A chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
ATE: Acute Toxicity Estimate.
DNEL: Derived No Effect Level.
DMEL: Derived Minimal Effect Level.
PNEC: Predicted No Effect Concentration.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

Classification abbreviations and acronyms
Eye Dam. = Serious eye damage
Skin Corr. = Skin corrosion
Met. Corr. = Corrosive to metals

General information
Only trained personnel should use this material.

Key literature references and sources for data

Classification procedures according to Regulation (EC) 1272/2008

Revision date 11/11/2017
Revision 2
Supersedes date 07/12/2012
SDS number 20464
SDS status Approved.

Hazard statements in full H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.