



1 Identification

GHS Product Identifier

Sodium Hexameta Phosphate

Other means of identification

CAS:	68915-31-1
EC:	272-808-3
RTECS:	TR4950250
ICSC:	Not listed in registry
IUPAC Name:	disodium;[hydroxy(oxido)phosphoryl] hydrogen phosphate
Chemical Family:	Mixture
Synonyms:	Disodium diphosphate; Disodium dihydrogen pyrophosphate; Sodium acid pyrophosphate; Sodium polyphosphate
Proper Shipping Name:	NOT REGULATED FOR TRANSPORT
Chemical Formula:	Na ₂ H ₂ P ₂ O ₇
Molecular Weight:	221.936 g/mol

Recommended use of the chemical and restriction on use

Laboratory chemicals, Manufacture of substances. Not for food, drug or household use.

Supplier's details

AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

4A Spanner Road PO Box 357
Spartan, Kempton Park Isando
Gauteng, South Africa Gauteng, South Africa
1619 1600
www.aquatradesa.co.za
admin@aquatradesa.co.za Tel: +27 11 394 0752

Emergency phone number

+27 82 921 0643 (Available Mon - Fri, GMT 5:00 to 20:00)

2 Hazard(s) identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Serious Eye Damage/Eye Irritation, (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS label elements

Warning



May be harmful if swallowed

Causes serious eye irritation

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Other hazards which do not result in classification

No hazards known not classified.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Polyphosphoric Acids, Sodium Salts			90 - 100	

4 First-aid measures

Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

No data available.

5 Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

No data available.

Specific hazards arising from the chemical

Hazardous combustion products:

No data available.

Special protective actions for fire-fighters

Cool containers/tanks with water spray. Minimize exposure. **DO NOT** breathe fumes. Contain run-off.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. **Avoid** dust formation. **Avoid** breathing vapours, mist or gas. Ensure adequate ventilation. **Avoid** breathing dust. For personal protection see section 8.

Environmental precautions

Avoid material from contaminating ground water system. Prevent product from entering drains and open water sources.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. **Avoid** formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure controls/personal protection

Control parameters

Occupational exposure limits:

Not listed

Additional exposure limits under the conditions of use:

Not available.

DNEL/DMEL and PNEC-Values:

Not available.

Components with workplace control parameters.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Recommendations below is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.



Eye/face protection:

Face shield and safety glasses or safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Contact lenses should not be worn; they may contribute to severe eye injury.

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

Body Protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure:

Do not let product enter drains.

9 Physical and chemical properties

Physical and chemical properties

Appearance (physical state, colour etc):	White crystalline powder
Odour:	No test data available
Odour threshold:	No test data available
(1% Sol) pH:	Between 3,7 and 5,0
Melting/Freezing Point:	628°C
Initial boiling point and boiling range:	1500°C (2732°F)
Flash point:	No test data available
Evaporation rate:	No test data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits	Not flammable or explosive
Vapour pressure:	No test data available
Vapour density:	No test data available
Relative density:	1.25
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	No test data available
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
Bulk density:	780 - 840 kg/m3

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10 Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable under normal use, storage and transport conditions.

Possibility of hazardous reactions

Product will not undergo polymerization. No hazardous reactions known.

Conditions to avoid

No data available.

Incompatible materials

Avoid contact with the following: Oxidizing agents.

Hazardous decomposition products

When heated to decomposition it emits toxic fumes of Phosphorous Oxides and Na₂O.

11 Toxicological information

Toxicological (health) effects

Acute toxicity:

LD₅₀ Oral Rat 6 600 mg/kg

LD₅₀ Oral Rat 3 053 mg/kg

LD₅₀ Oral Mouse 2 650 mg/kg

LD₅₀ Dermal Rabbit 7 940 mg/kg

Remarks: Gastrointestinal: Ulceration or bleeding from stomach. Gastrointestinal: Ulceration or bleeding from duodenum. Gastrointestinal: Ulceration or bleeding from small intestine.

Skin corrosion/irritation Skin

Rabbit Result: No skin irritation - 24 h

Serious eye damage/eye irritation:

Eyes - Rabbit Result: Mild eye irritation.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Additional Information:

RTECS: TR4950250.

Information on the likely routes of exposure

Skin and eye contact - YES (Dust)

Inhalation - YES (Dustt)

Ingestion - YES (Unhygienic practices)

Symptoms related to the physical, chemical and toxicological characteristics

An irritant to skin, eyes, and mucous membranes.

Delayed and immediate effects and also chronic effects from short and long term exposure

No additional data available.

Numerical measures of toxicity (such as acute toxicity estimates)

<i>Acute toxicity:</i>		<i>Category:</i>
LD ₅₀ Oral Rat	6 600 mg/kg	Not classifiable
LD ₅₀ Oral Rat	3 053 mg/kg	5
LD ₅₀ Oral Mouse	2 650 mg/kg	5
LC ₅₀ Dermal	7 940 mg/kg	Not classifiable

Interactive effects

No test data available.

Where specific chemical data are not available

No additional data.

Mixtures

No additional data.

Mixture versus ingredient information

No additional data.

Other information

None.

12 Ecological information

Toxicity

<i>Acute toxicity:</i>		<i>Category:</i>
EC ₅₀ Fish	No data	
EC ₅₀ Daphnia	No data	
EC ₅₀ Algae	No data	
EC ₅₀ Microorganism	No data	

Persistence and degradability

No test data available.

Bioaccumulative potential

No test data available.

Mobility in soil

No test data available.

Other adverse effects

No test data available.

13 Disposal considerations

Disposal methods

Waste disposal recommendations:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of waste and container in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

Recycle/reuse. Remove for physico-chemical/biological treatment. **Avoid** discharge into drains or the environment.

Ecology - waste materials:

Avoid release to the environment.

Empty Container:

Avoid reuse packaging.

14 Transport information

UN Number

NOT REGULATED FOR TRANSPORT

UN Proper Shipping Name

NOT REGULATED FOR TRANSPORT

Transport hazard class(es)

NOT REGULATED FOR TRANSPORT

Packing group, if applicable

NOT REGULATED FOR TRANSPORT

Environmental hazards

No environmental hazard known for the product. **Avoid** discharge into the environment, open water sources or municipal sewer.

Special precautions for user

None except those in sections 4 to 8.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

SA NATIONAL LEGISLATION

Hazardous Substances Act 15 of 1973 and Regulations.

Occupational Health and Safety Act 85 of 1993 and Regulations.

SA NATIONAL STANDARDS

SANS 10228 : 2006 : Identification and Classification of Dangerous Goods for Transport by Road and Rail.

SANS 10231 : 2018 : Transport of dangerous goods - Operational requirements for road vehicles.

SANS 10234 : 2008 : Globally Harmonized System of classification and labelling of chemicals (GHS).

SANS 11014 : 2010 : Safety Data Sheets for chemical Products.

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU

Listed in Regulation: Not applicable

Chemical safety assessment:

Not assessed.

16 Other information

Other information

Full text of H & P statements referred to under section 2.

Hazard Statements

H303 May be harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Labelling REGULATION (EC) No 1272/2008

Signal Word

Warning

Pictograms

GHS07 Health Hazard

Training advice

Provide adequate information, instruction and training for operators.

Compiled by R. van Rooyen, SHEQ and. E Le Sar, COO

MANUFACTURER/SUPPLIER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any national or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

Revision History

Revision:	Date:	Change:
1.0	2017/11/09	Preparation of the safety data sheet according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council