



SAFETY DATA SHEET

In compliance with EC Regulations No.: 1907/2006, 830/2015 and 1272/2008 (CLP).

Date last modified: 03 January 2018 - Version 5.0

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

1.1 Product Identifier

Product Name: PHOSPHATE

Product Code #: 672509 (25 kg)

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

Intended Use: Industrial applications; Boiler Water Treatment.

Uses advised against: This product is not recommended for any industrial, professional or consumer use other than the Intended Uses above and the instructions written in this Safety Data Sheet.

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification

Supplier/Manufacturer:

Marichem Marigases Hellas SA

Sfaktirias 64,

185 45 Piraeus,

Greece

Tel. No.: ++30 210 4148800

Fax No.: ++30 210 4133985

<http://www.marichem-marigases.com>

e-mail: mail@marichem-marigases.com

1.4 Emergency telephone number

Tel. No.: ++30 210 4148800 (including working hours)

Emergency Information:

Inside U.S. and Canada: (800)-424-9300 (CHEMTREC)

Outside U.S. and Canada: 1-703-527-3887 (CHEMTREC)

National Emergency Centre (Greece): ++30 210 7793777

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]
No need for classification according to GHS criteria for this product.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]
The product does not require a hazard warning label in accordance with GHS criteria.

Product classification and labelling according to Directive 67/548/EEC, European Dangerous Preparations Directive (1999/45/EC), European Regulation 648/2004 and their amendments.

No special labeling information required according to EU Directives.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Composition:

Ingredients	CAS Number	Proportion	Classification*
Sodium Hexametaphosphate	68915-31-1	40 % – 60 %	-
Other ingredients that do not contribute to the classification of the product	- -	40 % – 60 %	- -

*See section 16 for the full text of the Hazard codes declared above.

Occupational Exposure Limits, if available, are listed in section 8.

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

No special measures required. Remove clothing soiled by product.

GENERAL MEASURES

Inhalation: Supply fresh air; consult doctor in case of complaints.

Skin contact: Generally the product does not irritate the skin. In case of irritations, wash with water and seek medical advice.

Eye contact: Rinse opened for several minutes under running water and seek medical advice.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If symptoms persist consult doctor.

5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media

The product itself is not flammable; take extinguishing action appropriate to the fire in the surroundings: CO₂, powder or water spray.

Extinguishing media which shall not be used for safety reasons

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None known.

5.3. ADVICE FOR FIREFIGHTERS

Firefighters should wear normal fire-fighting gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear appropriate protective gear for the situation. See Chapter 8.

For non-emergency personnel:

For emergency responders:

6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers/surface or ground water.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep or vacuum up and place in an appropriate closed container (see Chapter 7: Handling and Storage). Clean up residual material by washing area with water and detergent. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

6.4. REFERENCE TO OTHER SECTIONS

Please check Chapter 7 and Chapter 8 of this SDS.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

No special measures required.

Recommendations:

Advice on general occupational hygiene:

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

No special requirements. Store in cool, dry conditions in well sealed receptacles. Seal packs tight once opened.

7.3. SPECIFIC END USE(S):

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name of Substance: Sodium Hexametaphosphate

8.1. CONTROL PARAMETERS

None.

8.2. EXPOSURE CONTROLS

The usual precautionary measures are to be adhered to when handling chemicals. After work, wash and care for the skin thoroughly.

Appropriate engineering controls

Individual protection measures

Eye/face protection: Safety glasses.

Skin protection: None required.

Hand protection: Protective gloves; Rubber gloves.

Respiratory protection: If powder is released, recommendation is to wear dust mask for handling.

Thermal hazards: None required.

Other: None required.

Environmental exposure controls: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

9.1.1. Appearance

Physical State: Thin granulated powder

Color: White

Odor: Odorless

9.1.2. Basic data

pH: 8 – 9 (at 10% Aqueous Solution)

Solubility: Completely soluble in water

Melting point/freezing point:	ca. 883,15 ⁰ C
Flash Point:	Not Applicable
Autoignition Temperature:	Not Available
Vapour Pressure:	Not Available
Relative vapor density (air=1):	Not Available
Specific Gravity (gr/cm³):	1.35 – 1.75 at 15 ⁰ C
Viscosity:	Not Applicable

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No decomposition if used according to specifications.

10.2. CHEMICAL STABILITY

This product is stable under normal handling and storage conditions described in Section 7.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

10.4. CONDITIONS TO AVOID

High temperatures and moisture.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

When heated in fire, may emit toxic fumes of sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Name of Substance: Sodium Hexametaphosphate

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute and chronic toxicity:

Oral rat LD50: 3053 mg/kg;

Oral mouse LD50: 7552 mg/kg;

Remarks: Gastrointestinal: Ulceration or bleeding from stomach.

Gastrointestinal: Ulceration or bleeding from duodenum.

Gastrointestinal: Ulceration or bleeding from small intestine.

Intraperitoneal mouse LD50: 870 mg/kg;

Subcutaneous mouse LD50: 1300 mg/kg;

Intravenous mouse LD50: 62 mg/kg

LD50 Dermal Rabbit > 7.940 mg/kg

Primary irritant effect:

on the skin: No irritant effect (Rabbit: Result - No skin irritation. 24 h).

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Toxicokinetics, metabolism and distribution: Undetermined

Acute effects (acute toxicity, irritation and corrosivity): Not known.

Sensitisation: No known.

Repeated dose toxicity: Not known.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Not known.

Carcinogenicity

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Other information

The substance is not subject to classification according to the latest version of the EU list.

12. ECOLOGICAL INFORMATION

Name of Substance: Sodium Hexametaphosphate

12.1. Toxicity**Aquatic toxicity**

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment Undetermined.

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

Do not allow product to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Disposal of the preparation

Disposal must be made according to official regulations.

Disposal of the contaminated packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 Not classified as dangerous material for the transportation according to ADR/RID, IMDG, ICAO/IATA and US DOT transportation codes.

15. REGULATORY INFORMATION

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2 Chemical Safety Assessment

A CSA has been carried out for the raw materials in this product, from the raw materials manufacturers (when needed to be carried out).

16. OTHER INFORMATION

16.1 Full text of Hazard Code(s) referred in Section 3

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

bw: Body weight.

Carc.: Carcinogenicity.

CAS number: Chemical Abstracts Service number.

CLP: Classification Labelling Packaging Regulation.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived No Effect Level.
dw: Dry weight.
EC number: EINECS and ELINCS number.
EC: European Commission.
EC50: Half maximal effective concentration.
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EmS: Emergency Schedule.
ERC: Environmental Release Category.
ES: Exposure scenario.
food: oral feed.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
Irrit.: Irritation.
LC50: Lethal concentration, 50 %.
LD50: Median Lethal dose.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
MK value: Maximum Concentration value.
NCO: An international corporation that provides customer service contracting.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
OECD: Organisation for Economic Cooperation and Development.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
PROC: Process category.
REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals.
Resp.: Respiratory.
Sens.: Sensitization.
STEL value: Short Term Exposure Limit value.
STOT RE: Specific target organ toxicity — repeated exposure.
STOT SE: Specific target organ toxicity — single exposure.
STOT: Specific Target Organ Toxicity.
STP: Sewage Treatment Plant.
SU: Sector of use.
Tox.: Toxicity.
TWA value: Time Weighted Average value.
vPvB: Very Persistent and Very Bioaccumulative.

16.3 Notice to reader

All information, instructions and statements contained in this Material Safety Data Sheet are compiled in accordance with European Directives, corresponding national legislation and on the basis of information given by our suppliers.

The information disclosed in this Material Safety Data Sheet (which supersedes all previous versions) is believed to be correct, at the date of issue, to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other products or in any processed form, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the recipient of this Material Safety Data Sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

Also, it is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management. Data and information provided concerning the product are informative, exclusively presented to the customer.