

Material Safety Data Sheet

Material Safety Data Sheet in accordance with 91/155/EEG

Version :1

Tetrasodium pyrophosphate

Status : 02-11-2015

1 Identification of the substance/preparation and company

Tradename : *Tetrasodium pyrophosphate*

Chemical name : *Tetrasodium pyrophosphate*

Application water processing; metal treatment

Supplier : *JIANGSU KHONOR CHEMICALS CO.,LIMITED*

Rm 1902 Easey Comm Bldg, 253-261, Hennessy RD Wanchai HK

Tel.: 0086-19851820538

2 Composition and information on ingredients

CAS-number	Annex-1 number	Conc. (w/w)	Symbols	R-phrases
Tetrasodium pyrophosphate : 7722-88-5		96.5%		None

Further information : Available in food grade and technical quality.

3 Hazards identification/Symptoms

Inhalation : Corrosive. Causes sore throat, headache, shortness of breath and dyspnoa

Skin : Corrosive. Causes redness and pain, burning sensations

Eyes : Corrosive. Causes redness, pain and poor visibility, severe burns and lasting damaging

Ingestion : Corrosive. Causes burning sensations, abdominal cramp, diarrhoea, headache and sickness

Environment : Lightly nocuous for waters (WGK 1).

Fire : Not flammable

Explosion :

Chemical / Physical :

Other : Product builds together with water a strong alcalic solution.

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4 First aid measures

In case of inhalation : Fresh air, rest and seek medical advice.

In case of contact with skin : Rinse with plenty of water, remove contaminated clothing.

In case of contact with eyes : Rinse immediately with plenty of water. Seek medical advice.

In case of ingestion :

Advice to doctor :

Instructions for physician :

Further Information :

5 Fire-fighting measures

Extinguishing media : At fire in the surroundings: all extinguishing agents permitted.

Unsuitable extinguishing media

Special exposure hazards : Tetrasodium pyrophosphate is not flammable.

Dangerous :
decomposition products

Equipment for :
firefighters

Specific extinguishing :
procedure

6 Accidental release measures

Personal precaution : Avoid contact with eyes, skin and respiratory system. Use personal protection equipment..

Environmental precaution : Tetrasodium pyrophosphate should not arrive into the soil or the aquatic environment.

Methods for cleaning up : Shovel up material and recycle if possible. Dispose of contaminated material according to the prescriptions.

7 Handling and storage

Handling : To be transported in the original packaging.

Storage : To be stored protected from humidity.

Requirements for :
packaging

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8 Exposure controls / personal protection

LIMIT VALUE*

* Dutch limit value (MAC): : not determined

MEASURES

Technical : Take care of sufficient ventilation and local suction.

Organizational :

Hygienic : Do not eat, drink or smoke during work.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of raising of dust wear dust protection mask

Hand protection : Suitable gloves

Eye protection : Safety glasses; with dust: protective glasses.

Skin protection : Protective clothing

9 Physical and chemical properties

Physical condition : Solid, powder

Formula $Na_4P_2O_7$

Colour : White

Odour : Odourless

Odour perception limit :

Molecular weight : 265.9

Acidity / pH(°C) : 9.9-10.7 (10 g / l H₂O)

Boiling point /...(°C) : 938

Point of transformation :

Melting point /...(oC) : 880

Flash point (°C) :

Self-ignition temperature

(°C) :

Lower explosion limit

(vol.%) :

Upper explosion limit :

(vol.%)

Vapour pressure (20 °C) :

Bulk Density (kg/m³) :900

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9 Physical and chemical properties

Relative density :

(H₂O=1)

Solubility in water : 62.3g/l

Viscosity (25 °C, mPas) :

Partition coefficient :
octanol/water

10 Stability and reactivity

Stability : Alkaline reaction with water.

Circumstances to avoid :

Substances to avoid : Reacts intensity alcali in case of admission of water , caustic soda lye which is incorporated in the crystal is liberated.

Dangerous :
decomposition products

11 Toxicological information

Acute toxicity : Oral: (LD₅₀) 400 mg/kg. Species: rat.

Topical effects:

Long-term effects:

Chronic effects :

Other effects :

Attitude in envorinment :

Compartments

12 Ecological information

Mobility :

Bioaccumulative :
potential

Degradability :

Ecotoxicity : Fish: LC 5 0 1650 mg/l.

Depending on the concentration, phosphoric components can attribute to the eutrophication of waters.

Other :

13 Disposal considerations

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13 Disposal considerations

Method of disposal : Shovel up material and recycle if possible. Dispose of contaminated material according to the prescriptions.

Waste material code :

Disposal of packaging :

Other remarks :

14 Transport information

UN-number :

Hazard Identification No. :

Transport name :

ADR/ADNR/RID class :

Item number :

IMO / IMDG-class :

IATA :

Other details :

15 Regulatory information

Symbol :



R-phrases

R36/37/38 : Irritating to eyes, respiratory and skin

S-phrases

S37/39 : Wear suitable gloves and Eye/face protection

Note :

EC-labeling : Labelling in conformity with directives 67/548/EEC and 88/379/EEC.

EC number : 231-509-8

Special regulations : Lightly nocuous for water (WGK 1).

16 Other information

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16 Other information

Changes in rubric : 3, 9

Date of printing : 02-11-2015

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.