Material Safety Data Sheet

Printing date 16.11.2016 *Revision: 27.03.2016*

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

· ***Date of compilation:*** *24.02.2016*
· ***1.1 Product identifier***

· ***Trade name:*** ***Pt-01***
· ***1.2 Relevant identified uses of the substance or mixture and uses advised against***
No further relevant information available.

· ***Application of the substance / the preparation:*** *Against corrosion and inhibit scaling for boiler*

· ***1.3 Details of the supplier of the safety data sheet***
· ***Manufacturer / Supplier:***
PTECH TECHNOLOGY CO., LTD.
Address: 160 Ro.8, Block 1, Tan Thuan Dong Ward, District 7, HCMC
Tel.: 08.37730716 – Fax: 08.37730718
Mail: info01.ptech@gmail.com
Contact person : Mr. Hai
Website: www.ptechcor.com
· ***1.4 Emergency telephone number:***
(+84) 0906820919
As above or next toxicological information centre.

SECTION 2: Hazards identification

· ***Information concerning particular hazards for human and environment:*** *Avoid*

2.1 Hazard-determining components of chemical

Strong Caustic:

May be corrosive to metals (Al, Zn…)

Toxic if swallowed or if inhaled

Fatal in contact with skin

Precautionary statements:

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

If swallowed: Rinse mouth. Do not induce vomiting

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skine with water/ shower

Other hazards:

Not applicable

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Mixtures

Description: *Mixture of the substances listed below with nonhazardous additions.*

Components:		
CAS: 10124-56-8 EC Number: 233-343-1 ECHA InfoCard: 100.030.299	Sodium Hexametaphosphate Chemical formula: $Na_6P_6O_{18}$ Molar mass: 611.7704 g mol−1 ; Appearance: White crystals Solubility: soluble Odor: odorless; Solubility in water: insoluble in organic solvents; Density: 2.484 g/cm3	13-17%
CAS: 7681-57-4 EC Number: 231-673-0 ECHA InfoCard: 100.028.794	Sodium Metabisulphite Chemical formula: $Na_2S_2O_5$ Molar mass: 190.107 g mol−1 ; Appearance: white to yellow powder; Solubility: soluble Odor: odorless; Solubility in water: 65.3 g/100 mL (20 °C); solvents; Density: 1.48 g/cm3	10-16%
CAS: 68037-40-1 EC Number: 233-343-1 ECHA InfoCard: 100.211.126	Sulfonated Styrene/Maleic Anhydride Copolymer Chemical Formula: (C8H8)n-(C4H2O3)m Molar mass: Variable; Appearance: crystal clear polymer; Solubility: soluble Odor: odorless; Solubility in water: insoluble in organic solvents; Density: 1.08 g/cm3	14-16%
CAS: 130-58-3 EC Number: 215-181-3 ECHA InfoCard: 100.013.802	Potassium hydroxide Chemical formula: KOH Molar mass: 65.11 g mol−1 Appearance: white solid, deliquescent; Solubility: soluble Odor: odorless; Solubility in water: insoluble in organic solvents; Density: 2.044 g/cm3	3-7%
Water		Up to 100%

SECTION 4: First cid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing contaminated by the product. Personal protection for the person providing first aid.

Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact:

Instantly wash with water and soap and rinse thoroughly.

Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor. Remove contact lenses, if present and easy to do.

Use eye protection.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

Danger:

Danger of gastric perforation. Danger of pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

SECTION 5: Accidental release measures

5.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Use breathing protection against the effects of fumes/dust/aerosol Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.
Avoid contact with skin, eyes and clothes. Ensure adequate ventilation.

5.2 Environmental precautions:

Damp down gases/fumes/haze with water spray jet.

Do not allow to enter drainage system, surface or ground water. Keep dirty washing water for appropriate disposal.

Inform respective authorities in case product reaches water or sewage system.

Prevent material from reaching sewage system, holes and cellars.

5.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

SECTION 6: Handling and storage

6.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. When diluting, always stir the product into standing water.

Wear personal protection equipment

Make sure that all applicable workplace limits are observed. Avoid skin and eye contact under any circumstances.

Keep containers tightly sealed.

***Information about protection against explosions and fires**:*

Prevent from drying out.

Keep breathing equipment ready.

6.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Store only in the original container.

Provide floor trough without outlet.

Observe all local and national regulations for storage of water polluting products.

Information about storage in one common storage facility:

Do not store together with (acid). Store away from foodstuffs.

Store away from metals by Alumium, Znic

Further information about storage conditions:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Store in a locked cabinet or with access restricted to specifically instructed persons.

6.3 Specific end use(s) No further relevant information available.

SECTION 7: Exposure controls/ personal protection

Exposure controls

Personal protective equipment

General protective and hygienic measures

Ensure that washing facilities are available in the work place.

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin

protection. Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Dispose of or clean any contaminated garments thoroughly.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed safety glasses Face shield

Body protection:

Acid resistant protective clothing

Body protection must be chosen depending on activity and possible exposure.

Limitation and supervision of exposure into the environment

Do not allow to enter drainage system, surface or ground water.

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SECTION 8: Physical and chemical properties

8.1 Information on basic physical and chemical properties	
· **General Information**	
· **Appearance:**	
Form:	viscous
Colour:	colourless
· **Smell:**	hot
· **Odour threshold:**	not determined
· **pH-value:**	10-12
· **Change in condition**	
Melting point/Melting range:	not determined
Boiling point/Boiling range:	106 °C
· **Flash point:**	not applicable
· **Inflammability (solid, gaseous)**	not applicable
· **Ignition temperature:**	not applicable
· **Decomposition temperature:**	Not determined.
· **Self-inflammability:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Critical values for explosion:**	
Lower:	not applicable
Upper:	not applicable
· **Oxidising properties**	not determined
· **Vapor pressure:**	Not determined.
· **Density at 20 °C:**	1.20 g/cm³
· **Bulk density:**	not applicable
· **Relative density**	Not determined.
· **Vapour density (AIR = 1):**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Soluble
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
dynamic:	not determined
kinematic:	not determined