



Material Safety Data Sheet

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY /UNDERTAKING

Product Name : Metal Membrane 2K ,
Application : Comp-I
Company : Thickener pulps
Company : **Pak Arab Trading & Shipping Agencies PVT Ltd.**
Address : Steel House, West Wharf Road, Karachi-74000, Pakistan
Telephone : phone + 92 (021) 2 85 66 01 + 92 (021) 2 85 66 02
Email : Patsa.industrial@gmail.com
Informing Department : Product Safety Department

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition : Portland cements, silica sands, additives
Hazardous Ingredient(s) **Symbol** **Risk Phrases** **Other Information %**
Cement (OPC)  R36/37/38 Cas No: 65997-15-1 >50
The Product is less of chromate (VI) (TRGS 613), Product based on cement and mineral filler

3: HAZARDS IDENTIFICATION



Xi IRRITANT Irritating to eyes, respiratory system and skin

Information pertaining to particular dangers for man and environment

R38 Irritating to skin

R 41 Risk of serious damage to eyes.

Classification System

The Classification is in line with current EC lists . It is expanded, however , by information from Technical literature and information furnished by supplier companies

4: FIRST AID MEASURES

Eyes contact : Irritate immediately with copious quantities of water for several minutes. Obtain medical attention urgently
Skin contact : Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin disorders develop.
Inhalation : Remove from exposure. If feeling unwell obtain medical attention
Ingestion : Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media : CO2. Extinguishing powder or water jet. Fight larger fires with watre jet or alcohol-resistant foam.
Special Exposure Hazards : None.
Special Protective Equipment : None.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Avoid causing dust. , Avoid eye and skin contact.
Environmental Precaution	: Prevent entry into drains, sewers and water courses
Decontamination Procedure	: Avoid the creation of dust in atmosphere. Gather into containers. Residues may be flushed to drain with large volumes of water. Prior consent must be obtained from the local Water Company if discharged to sewer

7: HANDLING AND STORAGE

Handling	: Avoid creating dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.
Storage	: Store in cool, dry area. Store away from food stuff, Please follow the rules of the VCI-storage-concepts for chemicals. Keep container tightly sealed.

8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Additional information about design of technical systems
It must be possible to wash the skin in the working area, Eye-wash bottle must be available

Components with critical values that require monitoring at the workplace: PZ-Klinker (25-50%)

OES Long-term value: 10* 4** mg/m³

*total inhalable dust **respirable dust

Additional information

The lists that were valid during the compilation were used as basis

Engineering Control Measures

: Atmospheric levels of dust must be maintained within the Occupational

Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used

Personal Protective Equipment

: Impervious gloves (eg PVC, nitril rubber hand gloves). Goggles / Safety glasses. Approved dust mask. Change contaminated clothing and clean before re-use.

Breathing equipment

Respiratory protection at exceeding of limits, for example at full cover mask: combination filter, B1-P2 (grey/white)

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Powder.
Colour	: Grey.
Odour	: Characteristic:
pH (working dilution)	>12
Boiling Point/Range (°C)	: Not applicable. :
Flash Point (closed, °C)	None.
Autoflammability (°C)	: Not applicable :
Oxidising Properties	Not determined
Relative Density (at 20°C)	: 1.5 kg/dm ³ (bulk) :
Water Solubility	Partially soluble

10: STABILITY AND REACTIVITY

Stability Conditions to Avoid Materials to Avoid	: Stable. If used according to specification. : Exposure to air. Contamination with water. Strong acids. :
Hazardous Decomposition Products	: None.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity**On Eyes**

: Irritating and may injure eye tissue if not removed promptly.

On Skin

: Irritation. See "chronic" effects.

By Inhalation

: Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.

By Ingestion

: May cause irritation of mouth, throat and digestive tract.

Chronic

:

Cement, Cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns

Additional information**toxicological**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version Irritant

12: ECOLOGICAL INFORMATION

Environmental Assessment

: Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant

Mobility

: Partially soluble in water. , Slightly hazardous for water

Persistence and Degradability

: Not readily biodegradable.

Bioaccumulative Potential

: Not expected to be bio accumulative.

Ecotoxicity

: Not expected to be ecotoxic to fish/daphnia/algae in cured state

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product

: Dispose of in an approved manner.

Used/Contaminated Product Packaging

: As for Unused product. Cleaning by Water , if necessary with cleaning agent

: The method of disposal must be acceptable to the local authority

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport

15: REGULATORY INFORMATION

Hazard Label Data:-	The product has been classified and labeled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
Named Ingredients	: cement powders
Symbol(s)	:  irritant
Risk Phrases	: Irritating to eyes, respiratory system and skin.
Safety Phrases	: Do not breathe dust Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice After contact with skin, wash immediately with plenty of soap and water ,keep out of children,
EC Directives	: Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instrument	: Chemicals (Hazard Information and Packaging for Supply) (Amendment)Regs. 1996 (SI 1092). Health & Safety at Work, etc. Act 1974. Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
Codes of Practice	: Waste Management. The Duty of Care.
Guidance Notes	: Occupational skin diseases: health and safety precautions (EH 26). Dust in the workplace: general principles of protection. (EH44). Occupational exposure limits (EH 40).

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Aquafin Pakistan. If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet. It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Department issuing data specification sheet	: Environment protection department
Contact	: Safety department/Technical service.

7: HANDLING AND STORAGE

Handling	: Avoid creating dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact. Keep away from heat and direct sunlight. keep away from children.
Storage	: Store in cool, dry area. Store away from food stuffs, Please follow the rules of the VCI-storage-conceptsfor chemicals. Keep container tightly sealed.
Special storage condition : instruction	Protect from frost.

8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Additional information about design of technical systems	: It must be possible to wash the skin in the working area, Eye-wash bottle must be available
Components with critical values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the work place
Additional information	: The lists that were valid during the compilation were used as basis
Personal Protective Equipment	: Impervious gloves (eg PVC, nitril rubber hand gloves). Goggles / Safety glasses. Approved dust mask. Change contaminated clothing and clean before re-use.
Eye Protection :	: Safety glasses recommended during filling/Refilling.
Breathing equipment	: Not necessary if room is well ventilated

9: PHYSICAL AND CHEMICAL PROPERTIES
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Physical State	: Liquid
Colour	: White
Smell / Odour	: Weak ,Characteristic
pH(working dilution)	: >7.5
Boiling Point/Range (°C)	: Not applicable.
Flash Point (closed, °C)	: Not applicable.
Auto flammability (°C)	: Product if not self igniting
Oxidizing Properties	: Product if not explosive
Relative Density (at 20°C)	: 1.05 kg/dm ³ (bulk)
Water Solubility	: Fully miscible

10: STABILITY AND REACTIVITY

Stability	: Stable. If used according to specification.
Conditions to Avoid	: Exposure to air. Contamination with water.
Materials to Avoid	: No dangerous reactions known.
Hazardous Decomposition Products	: No dangerous decomposition products known.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
On Eyes	: Irritating and may injure eye tissue if not removed promptly.
On Skin	: No irritant effect.
By Inhalation	: Irritating to respiratory system.
By Ingestion	: May cause irritation of mouth, throat and digestive tract. If inhale
Chronic	: No data known.
Additional toxicological information	: The product is not subject to classification according to the calculation method of the general EC Classification Guidelines for Preparations as issued in the latest version . When used and handled according to specification, the product does not have any harmful effects according to our experience and the information provided to us.

12: ECOLOGICAL INFORMATION

General notes	: Water hazard class 1 (self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water bodies or sewage system Little detailed information is available on the ecological effects of
Environmental Assessment	: this product, but its overall environmental impact is not regarded as significant
Mobility	: Partially soluble in water. , Slightly hazardous for water
Persistence and Degradability	: Data Not available
Bioaccumulative Potentia	: Data Not available
Ecotoxicity	: Data Not available

13: DISPOSAL CONSIDERATIONS**European waste catalogue**

08 00 00	: Wastes from the manufacture, formulation, supply and use (MFSU) OF COATINGS.
08 04 00	: Wastes from MFSU of adhesives and sealants(including waterproofing products)
08 04 03	: Wastes from water-based adhesives and sealants
Unused Product	: Dispose of in an approved manner.
Used/Contaminated Product	: As for Unused product. Cleaning by Water , if necessary with cleaning agent The method of disposal must be acceptable to the local & National
Packaging	: authority

14: TRANSPORT INFORMATION

Land transport ADR/RID-GGVS/F Class
This product is NOT classified as dangerous for transport according to above specification

15: REGULATORY INFORMATION

Hazard Label Data:-	The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
Named Ingredients	: Water based Dispersion of Styrolacrylate
National Regulations	: Water hazard class-1 (Self assessment), slightly hazard to water

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