

Section 1. Chemical Product and Company Identification

Product Name: POLYCARBOXYLATE SUPERPLASTICIZER

CAS No.: None

Application of the substance :

1. Widely used in precast & ready-mixed concrete, armored concrete and pre-stressed reinforced concrete in key construction projects such as dam and port construction, road building & town planning projects and dwelling erections etc.

2. Suitable for preparation of early-strength, high-strength, high-anti-filtration and selfsealing&pumpable concrete.

3. Used for and widely for self-cured, vapor-cured concrete and its formulations. At the early stage of application, extremely prominent effects are shown. As the result, the modulus and site utilization can be drastically, the procedure of vapor cure is omitted in peakheat summer days.

4. Compatible with Portland cement, normal Portland cement, Portland slag cement, flyash cement and Portland pozzolanic cement etc.

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Section 2. Composition/Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions

Components:

CAS No.: None	Sodium acrylate copolymer of polyethylene glycol	30%~60%
EC No.: None		
CAS No.: 7732-18-5	Water	40%~70%
EC No.: 231-791-2		

Section 3. Hazards identification

Classification according to regulation (EC) 1270/2008: The product is not classified according to CLP Regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable **Information concerning particular hazards for human and environment:** The product has not to be labeled due to the calculation procedure of Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008.

Classification system: The classification is according to the latest edition of the Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008, and extended by company and literature data.

Labeling according to Regulation (EC) No 1272/2008: Not applicable **Hazard pictograms:** Not applicable



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Signal word: Not applicable **Hazard-determining components of the labeling:** Not applicable **Hazard statements:** Not applicable **Precautionary statement:** Not applicable

Section 4. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. **After inhalation:** Supply with fresh air. Consult doctor if feel unwell.

After skin contact: Rinse skin with water and soap. If skin irritation happens, consult doctor. After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical attention.

After swallowing: Rinse out mouth with water. Consult doctor if feel unwell.

Section 5. Fire Fighting Measures

Suitable extinguishing agents: Dry chemical, alcohol-resistant foam, powder, carbon dioxide, water.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters Protective equipment: Wear fully protective suit.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Wear protective equipment. Use respiratory protective device against the effects of vapor/gas/fume/aerosol. Avoid contact with skin and eyes directly.

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose contaminated material as waste according to item 13.

Reference to other sections:

See section 7 for information on safe handing.

See section 8 for information on personal protection equipment.

See section 13 for disposal in formation.

Section 7. Handling and Storage

Handling: Keep store in the original container. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust/fume/aerosol. Use respiratory protective device against the effects of dust/fume/aerosol. Avoid contact with eye and skin.

Information about fire and explosion protection: Keep away from flame and ignition



sources.

Storage: Keep container dry. Keep in a cool place. Keep container tightly closed. Keep in a cool, well-ventilated place.

Section 8. Exposure Controls / Personal Protection

Control parameters:

Ingredients with limit 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 workplace.

DNELs: Data not available

PNECs: Data not available

Additional information: The lists valid during the marking were used as basis.

Exposure Controls: Based on the composition shown in section3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. See section 7 for information about design of technical facilities.

Personal protective equipment:

Respiration protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As composition, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

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

Eye protection: Safety glasses

Environmental exposure controls: Control measures must be made in accordance with Community environmental protection legislation.

Section 9. Physical/Chemical Properties

Appearance Odor PH value Semitransparent, colorless to light yellow Viscous liquid Special faint scent 6.0-8.0



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Melting Point Boiling Point Flash Point Flammability (solid, gas) Self-ignition Danger of explosion Density: Solubility in Water:

Data not available Data not available No data available No data available Product is not self-ignition Product is not explosive 1.1±0.05g/cm3 Soluble

Section 10. Stability and Reactivity

Reactivity: No decomposition if used according to specification.
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No further relevant information available.
Conditions to avoid: No further relevant information available.
Incompatible materials: Strong acid.
Hazardous decomposition products: No further relevant information available.

Section 11. Toxicological Information

Acute toxicity

LD/LC50 values relevant for classification: Data not available

Primary irritant effect

On the skin: Irritating effect possible

On the eye: Irritating effect possible

Sensitization: Sensitization possible

Toxicokinetics, metabolism and distribution: No further relevant information available **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available

Repeated dose toxicity: No further relevant information available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No further relevant information available.

Section 12. Ecological Information

Toxicity

Aquatic toxicity: Data not available Persistence and degradability: No further relevant information available Bio-accumulative potential: No further relevant information available Mobility in soil: No further relevant information available Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable Other adverse effects: No further relevant information available Additional ecological information



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General notes: Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water. Do not allow large quantities of the product to reach ground water, water course or sewage system

Section 13. Disposal Considerations

Waste treatment methods

Recommendation: Small quantities can be disposed together with household garbage. **Un-cleaned packaging**

Recommendation: Dispose of contents/container in according to the local/regional/national/ international regulation.

Section 14.Package/Transportation Information

Package: 220KGs Drum/1-1.1TONs IBC Tank or Flexible Tank.
Transportation: No hazardous carriage limited.
DOT Classification(US): Not dangerous goods
TDG Classification(Canada): Not dangerous goods
IMDG Classification: Not dangerous goods
IATA Classification: Not dangerous goods

Section 15: Other Regulatory Information

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

MAK (German Maximum Workplace Concentration): None of the ingredients is listed National regulations

Water hazard class: Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate list of REACH Regulation Annex XIV Authorization (19/12/2012): None of the ingredients is listed

REACH Regulation Annex XVII Restriction (13/2/2013): None of the ingredients is listed **REACH Regulation Annex XIV Authorization List (17/4/2013):** None of the ingredients is listed.

Chemical safety assessment: A Chemical Safe Assessment has not been carried out

Section 16: Other Information

Other Special Considerations: None MSDS Revision date: May, 4th, 2010 The second revision date: Jun., 2nd, 2011 The latest revision date: Jan., 12th, 2019 Emergency Contact: +86-(0)531-88987705



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