

1.IDENTIFICATION

Product identifier : HIGH-RANGE WATER REDUCER PCE

Details of the supplier of the safety data sheet

Revision Date: 01/12/2025

Company:

NISHU CHEMTECH PRIVATE LIMITED
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Other means of identification

Chemical Family : Polycarboxylate ether, Aqueous solution



2. HAZARDOUS IDENTIFICATION



Signal Word: Warning

Hazard Statement:

H316: May cause a mild allergic skin reaction

Precautionary Statements (Prevention):

P280: Wear protective gloves.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P302 + P352 - If on skin: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P301 + P315 - If swallowed: Get immediate medical attention.

Precautionary Statements (Disposal):

P501: Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):

Caution - substance not yet fully tested. This is a research sample and has not been assessed for environmental, health and safety aspects.

3. PRODUCT COMPOSITION AND INGREDIENT INFORMATION

Ingredient	CAS NO.	% Range
Polycarboxylate Ether	97105-14-1	50-55
Water	7732-18-5	45-50

4. FIRST-AID MEASURES

General Advice: Remove contaminated clothing immediately. Place affected personnel in a safe area and ensure rescuers are protected. Show this safety data sheet to the doctor in attendance.

If Inhaled: Move person to fresh air and keep comfortable for breathing. If breathing is irregular or has stopped, administer artificial respiration. Seek immediate medical attention.

If on Skin: Remove contaminated clothing and shoes immediately. Wash affected skin areas thoroughly with plenty of soap and water. Seek medical attention if irritation or rash persists.

If in Eyes: Rinse cautiously with water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do, then continue rinsing. Seek medical attention if irritation develops or persists.

If Swallowed: Rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel. If victim is conscious, give 200–300 ml of water to drink. Seek immediate medical attention.

Symptoms: May cause an allergic skin reaction (allergic contact dermatitis).

Hazards: No further applicable information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray, dry chemical powder, or alcohol-resistant foam.

Extinguishing media:

Suitable extinguishing media:

Water Spray, Dry Powder, Foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.



6.ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (PPE) as recommended. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation in the affected area. Evacuate unnecessary personnel and isolate the hazard area.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow the product to enter drains, sewers, surface water, or groundwater. Inform local environmental authorities if the product contaminates soil or waterways.

Methods and Materials for Containment and Cleaning Up:

For Small Spills: Absorb with inert material (e.g., sand, silica gel, acid binder, universal binder) and place in a suitable, closed container for disposal.

For Large Spills: Dike far ahead of the spill for later disposal. Pump off or shovel product into designated, labelled recovery or disposal containers.

For Residues: Pick up with absorbent material (e.g. sand, sawdust, general purpose binder). Dispose of absorbed material in accordance with regulations.

Clean contaminated surfaces thoroughly with water and detergents, complying with environmental regulations.

7.HANDLING AND STORAGE

Safe Handling Practices:

Ensure adequate ventilation, especially in confined areas.

Avoid contact with skin, eyes, and clothing.

Wear appropriate personal protective equipment (PPE).

Hygiene Measures:

Do not eat, drink, or smoke when using this product.

Wash hands and face thoroughly after handling the chemical.

Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in the original, tightly closed container.

Keep in a dry, cool, and well-ventilated place away from direct sunlight.

Protect from freezing temperatures and extreme heat to maintain product stability.

Direct sunlight or temperatures above 35°C may cause the HDPE drums to bulge slightly. This is a normal physical reaction caused by water evaporation and does not affect product quality. To resolve this, gently loosen the cap to release the pressure, then tighten it again. Move the HDPE drums to a cool, shaded area.

Incompatible Materials:

Keep away from strong acids, strong bases, and strong oxidizing agents.



8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Contains no substances with occupational exposure limit values.

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.
Provide local exhaust ventilation if mist, vapor, or aerosol is generated.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment (PPE):

Respiratory Protection: Not required under normal conditions of use.

If ventilation is inadequate or exposure limits are exceeded, wear a properly fitted, NIOSH-approved respirator matching the hazard.

Hand Protection: Wear chemical-resistant protective gloves (e.g., nitrile rubber, neoprene, or PVC).

Eye/Face Protection: Tightly fitting safety glasses with side-shields conforming to industry standards (e.g., ANSI Z87.1 or EN 166). Wear a full-face shield if a splashing hazard exists during handling.

Body Protection: Wear appropriate chemical-resistant protective clothing, lab coat, or apron to prevent skin exposure.

General Safety and Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, or using the lavatory.
Remove contaminated clothing immediately and wash it thoroughly before reuse.

9.PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Odour: Product specific

Colour: Colourless to Pale Yellow

pH value: approx. 3.0 - 6.0

Density: approx. 1.0 - 1.2 g/cm³

Solubility in water: Soluble in Water

Miscibility with water: @20°C completely (e.g. >=90%)

Solid Contents: 50% to 55%

Flashpoint: Not applicable

Flammability: Not determined

Chloride Content: Below 200 PPM

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions are expected if stored and handled as prescribed or indicated.

Corrosive to Metals: Corrosive effects to metal are not anticipated.

Oxidizing Properties: Not classified as oxidizing (not fire-propagating).

Chemical Stability: The product is chemically stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of Hazardous Reactions: No hazardous reactions will occur when stored and handled according to instructions. Hazardous polymerization will not occur.

Conditions to Avoid: None known under recommended storage and handling conditions. (Note: Avoid extreme temperatures and direct sunlight to maintain product quality).

Incompatible Materials: Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products: No hazardous decomposition products are expected if stored and handled as prescribed or indicated.

11. DISPOSAL CONSIDERATIONS

Waste Disposal of Substance: Dispose of waste in accordance with all applicable national, state, and local environmental regulations. It is the sole responsibility of the waste generator to determine, at the time of disposal, whether the product meets the criteria of a hazardous waste.

Do not discharge wastewater or chemical residues into drains, surface water, or sewerage systems.

Container Disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal in a licensed facility.

Do not reuse empty containers.

It is highly recommended to crush, puncture, or utilize other mechanical means to permanently disable and prevent the unauthorized use of used containers.



12.ECOLOGICAL INFORMATION

Aquatic Toxicity: This product is not classified as environmentally hazardous under normal conditions of use.

Biodegradability: The product is considered ultimately biodegradable under aerobic conditions.

Bioaccumulative Potential: No data available. Bioaccumulation is not expected.

Mobility in Soil: No data available. (Note: Due to its water-soluble nature, high mobility in soil may be expected if released into the environment).

General Environmental Advice: Handle the product in accordance with good industrial hygiene and safe working procedures. Avoid any unauthorized release or discharge into the environment. Do not allow the product to contaminate groundwater, surface water, or sewage systems.

13.TOXICOLOGICAL INFORMATION

Acute Toxicity: Based on available data, the classification criteria are not met. The product is not classified as acutely toxic.

Oral (LD50): No data available.

Primary Irritant and Corrosive Effects:

Skin Contact: Non-irritant. Not expected to be hazardous to the skin under normal conditions of use.

Eye Contact: May cause mild and reversible eye irritation.

Inhalation: May cause respiratory tract irritation. May cause sensitization by inhalation in sensitive individuals.

Ingestion: May cause slight irritation to the gastrointestinal tract, leading to nausea or discomfort.

Sensitization: May cause an allergic skin reaction or respiratory sensitization based on individual susceptibility. No specific laboratory data available.

Chronic and Long-Term Effects:

Carcinogenicity: No components of this product present at levels greater than or equal to 0.1% are identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. (No data available).

Mutagenicity (Mutagenic Effects): No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: No data available. Not expected to cause reproductive or developmental harm.

Specific Target Organ Toxicity (STOT): Single Exposure: No data available.

Specific Target Organ Toxicity (STOT): Repeated Exposure: No data available.

Aspiration Hazard: Based on available data, the classification criteria are not met.

14. TRANSPORT INFORMATION

UN Number: UN-No (ADR/RID/IMDG/IATA): Not applicable. Not regulated as dangerous goods.

UN Proper Shipping Name: Proper Shipping Name (ADR/RID/IMDG/IATA): Not applicable. Not regulated as dangerous goods.

Transport Hazard Class(es): Class (ADR/RID/IMDG/IATA): Not applicable. Not regulated as dangerous goods.

Packing Group: Packing Group (ADR/RID/IMDG/IATA): Not applicable. Not regulated as dangerous goods.

Environmental Hazards

Marine Pollutant: No.

Special Precautions for User

General: Always transport in closed, upright, and secure containers. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Regulatory Classification by Mode of Transport

Land Transport (MoRTH / ADR / RID): Not classified as dangerous goods under transport regulations.

Sea Transport (IMDG): Not classified as dangerous goods under transport regulations.

Air Transport (IATA / ICAO): Not classified as dangerous goods under transport regulations.

15. REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

European Union (EU) Regulatory Classification:

Labelling According to EC Directives / Regulation (EC) No 1272/2008 (CLP): The product does not require a hazard warning label in accordance with EC Directives or the Globally Harmonized System (GHS).

Hazard Pictograms: Not applicable.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Precautionary Statements: Not applicable.

REACH Regulation (EC) No 1907/2006: This product does not contain any substances of very high concern (SVHC) above the regulatory threshold of 0.1% (w/w).



16.OTHER INFORMATION:

Source of Information: This Safety Data Sheet (SDS) has been compiled based on our current state of knowledge, product characteristics, and available technical data. No alterations to the safety and hazard information have been made.

Accuracy and Validity: The information contained herein is believed to be true, accurate, and correct as of the issue date. However, this SDS is neither a Certificate of Analysis (COA) nor a Technical Data Sheet (TDS) and must not be misinterpreted as a product specification agreement.

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