



SAFETY DATA SHEET

Hypersperse MDC776

Infosafe No.: GBZZF
ISSUED Date : 29/07/2018
ISSUED by: Suez Water Technologies &
Solutions Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

Hypersperse MDC776

Product Code

G24942

Product Type

Membrane Deposit Control Agent

Company Name

Suez Water Technologies & Solutions Pty Ltd (ABN 84 001 221 941)

Address

Suez Water Technologies & Solutions
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Emergency phone number

1800 638 556 (Aus) 0800 154 666 (NZ)

Recommended use of the chemical and restrictions on use

Membrane Deposit Control Agent

Disclaimer

Off line MSDS are uncontrolled documents, Current safety data sheets can be accessed via internet on www.msdsonline.com.au/suez/

No liability is accepted for any damages resulting from the use of, or reliance on, this information..

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2

Signal Word (s)

WARNING

Hazard Statement (s)

Causes skin irritation.

Causes serious eye irritation.

Pictogram (s)

Exclamation mark

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Precautionary statement – Prevention

Wash contaminated skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Precautionary statement – Storage

Store away from incompatible materials.

Precautionary statement – Disposal

Dispose of material/container to a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.
Refer to appropriate authority in your State.

Supplemental Information

HSNO code: 6.3A (Substances that are irritating to the skin)

HSNO code: 6.4A (Substances that are irritating to the eye)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
[Hexane-1,6-diylbis[nitrilobis(methylene)]tetrakisphosphonic acid, potassium salt	38820-59-6	30-60 %
Materials not classified as hazardous	N/A	Balance

4. FIRST-AID MEASURES

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

First Aid Facilities

Normal washroom facilities are generally suitable. Ensure an eyewash station and safety shower are available and ready for use.

Advice to Doctor

Provide general supportive measures and treat symptomatically. Keep victim under observation.
Symptoms may be delayed.

Protection for First Aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

5. FIRE-FIGHTING MEASURES

Fire Fighting Measures

Move containers from fire area if you can do so without risk.

Suitable Extinguishing Media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Specific Hazards Arising From The Chemical

During fire, gases hazardous to health may be formed.

Precautions in connection with Fire

Move containers from fire area if you can do so without risk.

Other Information

No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Methods And Materials For Containment And Cleaning Up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Personal Precautions

For non-emergency personnel:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders:

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). The product may be cured and stratified when the temperature is below 10°C. It needs to be heated and mixed evenly before use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No Exposure Limit Established

Appropriate Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory Protection

** Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Half face-piece respirator with organic vapour (Type A) and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure levels.

Eye Protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

Hand Protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Body Protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Colour

Yellow

Odour

None

Boiling Point

Not available

Solubility in Water

100%

Specific Gravity

1.287 at 21 degrees Celsius

pH

pH (concentrated product) 6.5

Vapour Pressure

18mm Hg

Vapour Density (Air=1)

<1.00

Evaporation Rate

<1.00 (Ether = 1)

Physical State

Liquid

Viscosity

26 cps at 21 degrees Celsius

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Volatile Component

VOC (Weight %) 4 % (ASTM 3960-93)

Pour Point

-9 degrees Celsius

Partition Coefficient: n-octanol/water

Not available.

Flash Point

>93 degrees Celsius P-M (CC)

Auto-Ignition Temperature

Not available.

Flammable Limits - Lower

Not available.

Flammable Limits - Upper

Not available.

Explosion Limit - Upper

Not available.

Explosion Limit - Lower

Not available.

Explosion Properties

Not explosive

Oxidising Properties

Not oxidising

Melting/Freezing Point

-12 degrees Celsius

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Material is stable under normal conditions.

Conditions to Avoid

Protect from freezing. Contact with water reactive compounds may cause fire or explosion.

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Oxides of carbon, nitrogen and phosphorus evolved in fire

Possibility of hazardous reactions

Not available.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Acute toxicity: Not classified.

Product Species Test Results

HYPERPERSE MDC776

Acute

Dermal

LD50 Rabbit > 5000 mg/kg, (Calculated according to GHS additivity formula)

Oral

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LD50 Rat > 5000 mg/kg, (Calculated according to GHS additivity formula)

Components Species Test Results

[Hexane-1,6-diylbis[nitrilobis(methylene)]]tetrakisphosphonic acid, potassium salt (CAS 38820-59-6)

Acute

Dermal

LD50 Rabbit > 3250 mg/kg

Oral

LD50 Rat > 4875 mg/kg

* Estimates for product may be based on additional component data not shown.

Respiratory sensitisation

Not a respiratory sensitiser

Skin Sensitisation

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not available.

Reproductive Toxicity

This product is not expected to cause reproductive or developmental effects.

STOT-single exposure

Not available.

STOT-repeated exposure

Not available.

Aspiration Hazard

Based on available data, the classification criteria are not met. Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecological information

Product Species Test Results

HYPERSPERSE MDC776

LC50 Fathead Minnow 2143 mg/L, Static Renewal Bioassay, 96 hour

NOEL Fathead Minnow 1000 mg/L, Static Renewal Bioassay, 96 hour

Aquatic

Crustacea

Daphnia magna LC50 1071 mg/L, Static Renewal Bioassay, 48 hour

NOEL Daphnia magna 500 mg/L, Static Renewal Bioassay, 48 hour

Fish

LC50 Rainbow Trout 3482 mg/L, Static Renewal Bioassay, 96 hour

NOEL Rainbow Trout 2000 mg/L, Static Renewal Bioassay, 96 hour

* Estimates for product may be based on additional component data not shown

Ecotoxicity

Not available

Persistence and degradability

No Data Available.

Mobility

Mobility in soil: No data available for this product

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Environmental Fate

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Bioaccumulative Potential

No data available

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste Disposal

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Container Disposal

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods, according to the Australian Code for road, rail, sea and air transport.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

15. REGULATORY INFORMATION

Regulatory information

All components are included in the Australian Inventory of Chemical Substances and the New Zealand Inventory of Chemicals.

HSNO Approval Number

Group Standard - Cleaning Products - Subsidiary Hazard HSR002530

16. OTHER INFORMATION

Contact Person/Point

New Zealand address:

Level 6, 63 Albert Street, Auckland, 1010, New Zealand

Other Information

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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