



SAFETY DATA SHEET

Molybdate TC2 Reagent Solution

Infosafe No.: GBZ1F
ISSUED Date : 09/12/2019
ISSUED by: Suez Water Technologies &
Solutions Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

Molybdate TC2 Reagent Solution

Product Code

L2353

Product Type

Field Test Reagent.

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

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Product Safety Guide

This product should only be used in accordance to the procedures GE Betz has established for a specific application. For a technical advice contact GE Betz.

Recommended use of the chemical and restrictions on use

Field Test Reagent.

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

Signal Word (s)

WARNING

Hazard Statement (s)

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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Precautionary statement – Storage

Store away from incompatible materials.

Precautionary statement – Disposal

Dispose of waste and residues in accordance with local authority requirements.

Supplemental Information

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|--|-----------|------------|
| Octylphenoxy polyethoxyethanol | 9036-19-5 | 2.5-10 % |
| Components not classified as dangerous goods | N/A | Balance |

4. FIRST-AID MEASURES

Inhalation

Move to fresh air. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Call a physician if symptoms develop or persist.

Ingestion

Do not feed anything by mouth to an unconscious or convulsive victim. Do NOT induce vomiting! Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water. Immediately contact a physician.

Skin

Remove contaminated clothing. Wash off with soap and water. Wash clothing separately before reuse. Get medical attention if irritation develops and persists.

Eye contact

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

Indication of immediate medical attention and special treatment needed if necessary

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

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision

Other Information

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

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5. FIRE-FIGHTING MEASURES

Fire Fighting Measures

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.

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.

Special Protective Equipment for fire fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

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

Decomposition Temperature

Not available.

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. Cover with plastic sheet to prevent spreading. 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

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.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground

7. HANDLING AND STORAGE

Precautions for Safe Handling

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

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit

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Biological Limit Values

No biological exposure limits noted for the ingredient(s)

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. Provide eyewash station.

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

Splash proof chemical goggles.

Hand Protection

Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.

Thermal Hazards

Wear appropriate thermal protective clothing, when necessary

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

Colourless

Odour

None

Decomposition Temperature

Not available.

Boiling Point

100 degrees Celsius

Solubility in Water

100%

Specific Gravity

1.000 @ 21 degrees Celsius

pH

pH (concentrated product) 6.5

Vapour Pressure

18mm Hg

Vapour Density (Air=1)

<1.00

Evaporation Rate

<1 (Ether = 1)

Physical State

Liquid

Viscosity

4cps @ 21 degrees Celsius

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Volatile Component

0% (Estimated)

Partition Coefficient: n-octanol/water

Not available.

Flash Point

> 93 degrees Celsius P-M(CC)

Flammability

Not applicable

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.

Melting/Freezing Point

Not available

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

None under normal conditions

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide

Possibility of hazardous reactions

Hazardous polymerization does not occur

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

| Product | Species | Test Results |
|--|---------|--|
| MOLYBDATE TC2 REAGENT SOLUTION (CAS Mixture) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 5000 mg/kg, (Calculated according to GHS additivity formula) |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg, (Calculated according to GHS additivity formula) |

| Components | Species | Test Results |
|--|---------|--------------|
| Octyl phenoxypolyethoxyethanol (CAS 9036-19-5) | | |
| Acute | | |

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| | | |
|--------|--------|--------------|
| Dermal | | |
| LD50 | Rabbit | > 3000 mg/kg |
| Oral | | |
| LD50 | Rat | 1800 mg/kg |

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

Ingestion

May cause slight gastrointestinal irritation.

Inhalation

May cause irritation to respiratory organs.

Skin

Prolonged or repeated contact may cause irritation.

Eye

Causes serious eye irritation.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Not available.

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

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens Not listed.

Reproductive Toxicity

This product is not expected to cause reproductive or developmental effects

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

Aspiration Hazard

May be harmful if swallowed and enters airways. Based on available data, the classification criteria are not met.

Human Effects

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Chronic Effects

No evidence of potential chronic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecotoxicity data noted for the ingredient(s).

Persistence and degradability

No data is available on the degradability of this product.

Mobility

No data available.

Bioaccumulative Potential

No data available.

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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.

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

Local Legislation

Dispose in accordance with all applicable regulations.

Other Information

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

14. TRANSPORT INFORMATION

Transport Information

Not classified as a Dangerous Good for the purposes of 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 exempt or listed in the Australian Inventory of Chemical Substances and the New Zealand Inventory of Chemicals.

HSNO Approval Number

Group standard HSR002596 - Laboratory Chemicals and reagent kits

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.

END OF SDS

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