



SAFETY DATA SHEET

PRODUCT NAME: Hama-Protoc M200

Issue Date: Apr-23

IDENTIFICATION

Product Name: Hama-Protoc M200
Other Names: Ackool 325
Product Code: AHPM20020
Uses: Scale and corrosion control for open circuit water recirculating systems.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 07 974 4971 Web: www.hamchem.nz Email: info@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Serious Eye Damage – Category 1

Signal Word: DANGER

Hazard Statements

H318 – Causes serious eye damage

Precautionary Statements

Prevention

P280 – Wear eye/face protection

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

Disposal

P501 Dispose of contents/container in accordance with local regulations.

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Sodium molybdate	10102-40-6	<2%
Phosphono-carboxylic acids	2809-21-4	<6%
Anionic acrylic polymer		<6%
Benzotriazole	95-14-7	<1%
Sodium hydroxide	1310-73-2	<1%
Water		Balance

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FIRST AID MEASURES

Ingested: Drink milk or water. NEVER attempt to induce vomiting. Always obtain medical attention immediately.

Eye: Immediately rinse with plenty of running water for a prolonged period (at least 15 minutes) whilst keeping the eyes wide open. Always obtain medical advice immediately, even if there are no symptoms. Show this sheet to the doctor.

Skin: Remove all contaminated clothing and footwear. Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). Always obtain medical advice.

Inhaled: Move the person away from the contaminated area. Make the affected person rest. If not breathing start artificial respiration. Obtain medical attention. Show this sheet to the doctor.

Advice to doctor: Contact National Poisons and Hazardous Chemicals Information Centre Dunedin 0800-764-766 (03-479-7248).

For advice, contact a Poisons Information Centre (*New Zealand 0800 764 766*) or a doctor.

FIRE FIGHTING MEASURES

Extinguishing media: In case of fire in the surroundings use the appropriate extinguishing method for the area. Try to avoid using water jet.

Hazards from combustion products: Decomposition products released in a fire should be considered as probably harmful if inhaled. Oxides of phosphorous and carbon.

Precautions for fire fighters and special protective equipment: Fire fighters to wear self-contained breathing apparatus (SCBA) and full protective clothing. If safe to do so, move undamaged containers from fire area. Stay upwind. Evacuate the personnel away from the fumes. If possible to do so safely, shut off fuel to fire. In case of fire close by, cool down the containers/equipment exposed to heat with a water spray.

Hazchem code: 2R

Flammability: Non-flammable.

ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes, skin and respiratory system. If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade). Use full protective clothing and equipment.

Environmental precautions: Prevent the product from spreading into the environment. Contain the spilled material by bunding.

Methods for cleaning up:

- **Recovery:** Recover as much of the product as possible. Absorb the product onto porous material. Transfer the product into a spare container, suitably labeled. Then take the emergency containers to an area reserved for subsequent recycling or disposal.
- **Neutralisation:** Absorb spillage with diatomaceous earth, sand or inert absorbent.
- **Cleaning/decontamination:** Wash non-recoverable remainder with large amounts of water. Recover the cleaning water for subsequent disposal.
- **Disposal:** Place in an appropriate container and dispose of the contaminated material at a licensed site.

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HANDLING & STORAGE

Safe handling advice: Technical measures: ventilation.

Measures: This product must only be handled by skilled operators. Avoid exposure: work in a well-ventilated area. Avoid forming aerosols. Avoid the formation of mists in the atmosphere. Do NOT handle without gloves. Obtain special instructions before use. (Read the technical data sheet). Handle and use in accordance with good occupational hygiene and safety practice. Do not mix with incompatible materials.

Safe storage use: Technical measures: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions: Recommended: Store in a cool, dry area.

Incompatible products: Strong bases.

Packaging: Polyethylene or polypropylene drums (High density).

Packaging materials: Recommended: Plastic materials (polyethylene, polypropylene) – (high density).

EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure standards: TWA: 20 mg/m³

Engineering controls: Avoid splashes (appropriate clothing, protective screens on machines etc). Ensure good ventilation of the work station to keep airborne concentrations below exposure limits and as low as practicable. Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, local exhaust ventilation may be required.

Eye/face protection: Safety glasses with side shields, or splash-proof chemical goggles, and a full-face shield. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

Hand protection: Glove material: protective gloves made of PVC.

Thickness: 1.23mm

Breakthrough time: >480 minutes

Protection class: 6

Glove material: Nitrile protective gloves

Thickness: 1.23mm

Breakthrough time: >480 minutes

Protection class: 6

Use suitable chemical-resistant protective gloves. Protective gloves must be chosen accordingly to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. The selection of gloves must be taken into account the extent and duration of use at the workstation. Reference should be made to AS/NZS 2162:1 Occupational protective gloves – Selection, use and maintenance.

Respiratory protection: Avoid breathing of vapours/mists. If mist is formed select and use respiratory protective device with a particle filter. Select and use respirators in accordance with AS/NZS 1715/1216. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a self-contained breathing

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apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715/1716, or any other acceptable International Standard is recommended.

Body protection: Wear suitable long-sleeved clothing (i.e. shirts and pants) including a chemical resistant apron where clothing is likely to be contaminated. Consideration must be given both to durability as well as permeation resistance. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

Workplace hygiene measures: Use clean and correctly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do NOT eat or drink in the workplace.

Further information: The user is responsible for monitoring the working environment in accordance with local laws and regulations.

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Red
Specific Gravity: 1.15 @ 25°C
Solubility in water: Totally miscible
Flammability limits: Non flammable
Boiling point: 100°C (approx)

STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous decomposition products: Oxides of phosphorous and carbon.

Hazardous polymerization: Will not occur.

Incompatibles: Strong bases.

Conditions to avoid: Stable under normal conditions of use.

TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD₅₀ skin (Rat) : >2000 mg/kg. Data for phosphono-carboxylic acid only
LD₅₀ oral (Rat) : > 5000 mg/kg. Data for phosphono-carboxylic acid only

ECOLOGICAL INFORMATION

Ecotoxicity: Do not allow to get in waterways. If this occurs, inform the relevant water authority at once.

DISPOSAL CONSIDERATIONS

Residues from product: Do NOT discharge waste into drains. Dispose of in accordance with relevant local regulations. Dispose of this product as hazardous waste. Incinerate at a licensed installation.

Contaminated packaging: Decontamination/cleaning: Take preliminary precautions based on the dangerous properties of the product. Empty the packaging completely prior to disposal.

Destruction/disposal: Depending on local facilities, recycle or incinerate the packaging at an authorized site. **NOTE:** The user's attention is drawn to the possible existence of local regulations regarding disposal.

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TRANSPORT INFORMATION

UN Number: 1760
Proper Shipping name: CORROSIVE LIQUID, N.O.S
Dangerous Goods Class: 8
Subsidiary Risk: Nil
Packing group: III
Hazchem Code: 2R

REGULATORY INFORMATION

HSNO Classifications: 8.3A

HSNO Approval # HSR002684 – Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020

OTHER INFORMATION

End of SDS.