



# SAFETY DATA SHEET

**PRODUCT NAME:** Hama-Descale 201

Issue Date: April 23

## IDENTIFICATION

**Product Name:** Hama-Descale 201  
**Product Code:** BHD20120  
**Uses:** Boiler feed water scale and sludge control agent  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Te Rapa, Hamilton  
Phone: 07 974 4971 Web: [www.hamchem.nz](http://www.hamchem.nz) Email: sales@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

Skin Corrosion – Category 1C  
Serious Eye Damage – Category 1

**Signal Word:** DANGER

### Hazard Statements:

H314 – Causes severe skin burns and eye damage  
H318 – Causes serious eye damage

### Prevention

P260 – Do not breathe dusts or mists  
P264 – Wash hands thoroughly after handling  
P280 – Wear protective gloves/clothing and eye/face protection

### Response

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower)  
P363 – Wash contaminated clothing before reuse  
P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing  
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

### Storage

P405 – Store locked up

### Disposal

P501 – Dispose of contents/container to an approved waste facility in accordance with local/regional/national regulations.

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### COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Sodium Hexametaphosphate	10124-56-8	20%
Phosphono-carboxylic acids	2809-21-4	<5%
Anionic acrylic polymer		25%
EDTA	64-02-8	1%
Sodium Metabisulphite	7681-57-4	1%
Water		Balance

### FIRST AID MEASURES

**Ingested:** Drink milk or water. NEVER attempt to induce vomiting. Always obtain medical attention immediately. Show this sheet to the doctor.

**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.

**Aggravated Medical Conditions Caused by Exposure:** Skin contact may aggravate existing skin disease.

**First aid facilities:** Emergency equipment and first-aid box with instructions readily available. Eye fountain. Safety shower.

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

**Further information:** Establish a first aid action plan before using this product. Use appropriate protective equipment when treating a contaminated person. Use first aid techniques to restore vital functions. Place contaminated clothing in a sealed bag for disposal.

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.

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## 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.
- **Dangerous Goods – Initial Emergency Response Guide (IERG) (SAA/SNZ HB76)**  
Guide 37: CORROSIVE LIQUID, N.O.S

## 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:** There is no exposure standard set by Worksafe NZ for this product or mixture. Exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (inspirable) and 3mg/m<sup>3</sup> (respirable)

**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.

### Personal protective equipment:

**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

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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 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:** Clear to yellow

**Specific Gravity:** 1.23 @ 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.

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### TOXICOLOGICAL INFORMATION

#### Acute Health Effects

**Swallowed:** Harmful if swallowed. Ingestion will result in immediate burning pain in mouth and throat.

**Eye:** Corrosive. Direct contact will cause severe damage to eyes.

**Skin:** Corrosive. Can cause burns or severe irritation.

**Inhaled:** Corrosive. Solvent vapours or mist of product can produce severe irritation of mucous membranes.

#### Acute oral toxicity:

LD<sub>50</sub> skin (Rat) : >2000 mg/kg. Data for phosphono-carboxylic acid only

LD<sub>50</sub> 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.

### TRANSPORT INFORMATION

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

### REGULATORY INFORMATION

**HSNO Classifications:** 8.2C, 8.3A

**EPA Approval:** HSR002681 – Water Treatment Chemicals (Corrosive) Group Standard 2020

### OTHER INFORMATION

**End of SDS.**