

# SAFETY DATA SHEET

**PRODUCT NAME:** Hama-Protoc N15

Issue Date: April 23

## IDENTIFICATION

**Product Name:** Hama-Protoc N15  
**Product Code:** BHPN1520  
**Uses:** Corrosion control of ferrous and non-ferrous metals in closed circuit engine cooling systems.  
**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](mailto: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

Acute Toxicity (Oral) - Category 4  
Eye Irritation – Category 2  
Germ Cell Mutagenicity – Category 2  
Specific Target Organ Toxicity (Repeated Exposure) – Category 2  
Hazardous to the Aquatic Environment (Acute) – Category 1  
Hazardous to the Aquatic Environment (Chronic) – Category 2  
Hazardous to Terrestrial Vertebrates

**Signal Word:** Warning

### Hazard Statements

H302 – Harmful if swallowed.  
H319 – Causes serious eye irritation.  
H341 – Suspected of causing genetic defects.  
H373 – May cause damage to organs through prolonged or repeated exposure.  
H411 – Toxic to aquatic life with long lasting effects.  
H433 – Harmful to terrestrial vertebrates.

### Prevention

P264 – Wash hands thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product  
P201 – Obtain special instructions before use  
P202 – Do not handle until all safety precautions have been read and understood  
P280 – Wear protective gloves/clothing and eye/face protection  
P260 – Do not breathe dust/fume/gas/mist/vapours/spray  
P273 – Avoid release to the environment

### Response

P301 + P312 – IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

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P330 – Rinse mouth.

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

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P308 + P313 – IF exposed or concerned: Get medical advice/ attention.

P314 – Get medical advice/attention if you feel unwell.

P391 – Collect spillage

**Storage**

P405 – Store locked up

**Disposal**

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

**COMPOSITION & INFORMATION ON INGREDIENTS**

Chemical Entity	CAS No.	Proportion (%)
Sodium Nitrite	7632-00-0	<10%
Sodium Borate	1303-96-4	<2%
Benzotriazole	2492-27-4	<1%
Sodium Nitrate	7631-99-4	<1%

**FIRST AID MEASURES**

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

**Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

**Skin Contact:** If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye Contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

**Indication of immediate medical attention and special treatment needed:** Treat symptomatically.

**FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Normal foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards arising from the substance or mixture:** Non-combustible material.

**Special protective equipment and precautions for fire-fighters:** Decomposes on heating emitting toxic fumes, including those of oxides of nitrogen. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. If safe to do so, remove containers from path of fire. Keep containers cool with water spray.

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### ACCIDENTAL RELEASE MEASURES

**Emergency procedures/Environmental precautions:** Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

**Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

### HANDLING & STORAGE

**Precautions for safe handling:** Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation. Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Do NOT store nor transport with ammonium salts. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

### EXPOSURE CONTROLS & PERSONAL PROTECTION

**Workplace Exposure Standards:** No value assigned for this specific material by Worksafe NZ. Exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (inspirable dust) and 3mg/m<sup>3</sup> (respirable dust).

**Appropriate engineering controls:** Natural ventilation should be adequate under normal use conditions. If inhalation risk exists: Use with local exhaust ventilation or while wearing suitable mist respirator. Keep containers closed when not in use.

**Individual protection measures, such as Personal Protective Equipment (PPE):** The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

### PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Light Yellow
<b>Odour:</b>	Faint
<b>Solubility:</b>	Miscible with water.
<b>Specific Gravity:</b>	1.15
<b>Relative Vapour Density (air=1):</b>	Not available
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not applicable
<b>Flammability Limits (%):</b>	Not applicable
<b>Autoignition Temperature (°C):</b>	Not applicable
<b>Boiling Point/Range (°C):</b>	>100
<b>pH:</b>	>8.5

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### STABILITY & REACTIVITY

**Chemical stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions:** Reacts violently with reducing agents, ammonium salts, and cyanates. Hazardous polymerisation will not occur.

**Conditions to avoid:** Avoid contact with foodstuffs.

**Incompatible materials:** Incompatible with acids, combustible materials, ammonium salts, reducing agents, and cyanates.

**Hazardous decomposition products:** Oxides of nitrogen.

### TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing large amounts may result in in-coordination and fatigue, fever, convulsions and coma. Collapse and possible death may occur.

**Eye contact:** An eye irritant.

**Skin contact:** Contact with skin will result in irritation.

**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation. Inhalation at high concentrations can result in breathing difficulties and possibly convulsions.

**Acute toxicity:** No LD50 data available for the product. For the constituent Sodium nitrite:

Oral LD50 (rat): 180 mg/kg.

**Chronic effects:** Harmful to human target organs or systems.

### ECOLOGICAL INFORMATION

**Ecotoxicity:** Avoid contaminating waterways.

**Aquatic toxicity:** Toxic to aquatic organisms.

### DISPOSAL CONSIDERATIONS

**Disposal methods:** Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations.

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**TRANSPORT INFORMATION**

**Road and Rail Transport**

Classified as a Dangerous Good according to NZS 5433 Transport of Dangerous Goods on Land.

**UN No:** 3082

**Transport Hazard Class:** 9 Miscellaneous Dangerous Goods

**Packing Group:** III

**Proper Shipping Name or Technical Name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS SODIUM NITRITE)

**Hazchem Code:** 3Z

**REGULATORY INFORMATION**

**HSNO Classifications:** 6.1D, 6.4A, 6.6B, 6.9B, 9.1A, 9.1B, 9.3B

**EPA Approval Number:** HSR002684 – Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020

**OTHER INFORMATION**

**End of SDS.**