SAFETY DATA SHEET

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name:	**TENAX PROTECT**
Recommended	Heavy Duty Alkaline Detergent
Supplier:	Hygiene Technologies Ltd
Street Address:	28 Rangitane Rd Whakatu, Hastings 4172 New Zealand
Telephone:	+ 64 6 876 4111 or 0800 732 525
Emergency Telephone number:	National Poisons Centre (24/7) **- 0800 POISON** (0800 764 766)

2. HAZARDS IDENTIFICATION

This product is classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land.



Signal Word

DANGER

Group Standard 2020

HSR002526

Hazard Substances

Classified as hazardous according to criteria in GHS 7.

Hazard Classifications

Skin Corrosion – Category 1C
Serious Eye Damage – Category 1
Specific Target Organ Toxicity (single exposure) – Category 3
Acute Hazard to the Aquatic Environment – Category 3

Hazard Statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Prevention Precautionary Statements

P260 Do not breathe vapours or spray.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P271 Use only in a well-ventilated area.
P273 Avoid release to the environment.

P280 Wear protective gloves and protective clothing including eye and face protection and (if an inhalation risk exists), an appropriate respirator.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+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.
P321	Specific treatment (see first aid section on the label).
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 Precautionary Statement

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

General Precautionary Statement

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS No.	PROPORTION
Sodium metasilicate	6834-92-0	<10 % (w/w)
Ingredients determined to be Non-Hazardous		Balanced

4. FIRST AID MEASURES

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor If medical advice is needed, have product container or label at hand.

Swallowed

Do NOT induce vomiting. Rinse mouth with water. Give water to drink to achieve dilution. Never give anything by mouth to an unconscious person. If vomiting occurs, give further waters. Immediately call a POISON CENTRE or doctor.

Eye Contact

Immediately rinse cautiously with copious volumes of water for 15 minutes. Eyelids to be held open. Remove contact lenses, if present and easy to do. Continue rinsing. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin Contact	If skin or hair irritation occurs, remove all contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering or irritation occurs seek medical attention.
Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing. Keep at rest until fully recovered. If breathing is laboured and patient is cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped, apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical attention.

Refer to National Poisons and Hazardous Chemicals Information Centre 0800 764 766.

5. FIRE FIGHTING MEASURES

Specific Hazard	Non-combustible material
Suitable Extinguishing Media	If material is involved in a fire, use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Fire/Explosion Hazards	Non-combustible, however following evaporation of aqueous component, residual material can decompose if involved in a fire, emitting toxic fumes. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to products of decomposition.
HAZCHEM	2X

6. ACCIDENTAL RELEASE MEASURES

Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If contamination of sewers or waterways has occurred, advise local emergency services. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain minor spills (less than 100L) from local drainage with any suitable bund or barrier. Soak up spilled product using absorbent non-combustible material such as mineral sponge, paper, rags, sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, clearly labeled, dry, sealable containers and hold for safe disposal. Once pick up is complete, flush spill site with plenty of water to eliminate any residue. For large spills from drums and IBCs, alert the local Fire Brigade. Clear area of all unprotected personnel. Slippery when spilt. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect absorbed material in drums which can be closed and sent to landfill. Hold any contaminated water for disposal by a waste disposal contractor. If material does contaminate crops, sewers or waterways, alert local emergency services.

7. HANDLING AND STORAGE

Handling Advice

Prevent damage to containers. Should packaging be damaged, repack into clean and dry containers of the same type and mark the product name carefully on the container. Before use, carefully read the product label. Avoid eye and skin contact with concentrated material. Avoid inhalation of vapour, mist or aerosol. Wash hands thoroughly after handling. Wear protective gloves, eye protection and overalls when handling bulk product. Contaminated work clothing should not be allowed out of the workplace after handling bulk product. Avoid release to the environment.

Storage Advice

Store in a cool, dry well-ventilated area, away from direct sunlight, heat sources, and food stuffs. Ensure containers are correctly labelled, protected from physical damage, sealed when not in use and stored upright. Check regularly for leaks, spills etc. Keep out of reach of children. Keep containers closed when not in use. Store locked up in original packaging as approved by manufacturer. Do not use empty containers for the storage of foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Guidelines

No value assigned for this specific material by the NZ Occupational Safety and Health Services (OSH).

Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas. Use with local exhaust ventilation or (if an inhalation risk exists) while wearing an appropriate respirator. Keep containers closed when not in use.

Personal Protective Equipment:

Wear chemical resistant disposable gloves (e.g., PVC), safety glasses safety shoes, overalls and apron. Always wash hands before smoking, eating, drinking or using the toilet. When handling do not eat, drink or smoke. Wash contaminated clothing and other protective equipment before storage or reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Straw Liquid
Odour	Negligible
Solubility	Soluble
Specific Gravity	1.05 - 1.06
Flash Point (°C)	Not Applicable
pH	13.0 - 13.25 (undiluted)
Freezing Point	Not Available
Boiling Point / Range (°C)	Not Available

Vapour Pressure	Not Available
Viscosity	Non-Viscous

10. STABILITY AND REACTIVITY

Chemical Stability:	This material is thermally stable when stored and used as directed.
Conditions to Avoid:	Elevated temperatures and sources of ignition.
Incompatible Materials:	Strong acids and ammonia
Reactivity	No known hazardous reactions

11. 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:

ACUTE EFFECTS

Swallowed	Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye Contact	Corrosive to eyes. Contact with eyes will result in severe corneal burns. Contamination of eyes can result in permanent injury.
Skin Contact	Corrosive to skin. Contact with skin will result in severe burns. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhaled	Material may be corrosive to mucous membranes and respiratory tract.
Long Term Effects	No information available for the product.
Toxicological Data	No LD_{50} data available for this product

12. ECOTOXICOLOGICAL INFORMATION

Aquatic Toxicity	Harmful to aquatic life. Avoid contaminating waterways. Acute toxicity estimate (based on ingredients): 10 – 100 mg/L
Long-term aquatic hazard	Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data

13. DISPOSAL CONSIDERATIONS

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for unauthorised disposal by either landfill or via municipal sewers. Not to be discharged to drains, natural streams or rivers.

Special Precautions: Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land.



UN Number:	3266
Dangerous Goods Class:	8
Packing Group:	III
Hazchem Code:	2X
Emergency Response Guide No:	154
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S. (contains Sodium Metasilicate)

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN Number:	3266
Dangerous Goods Class:	8
Packing Group:	III
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S. (contains Sodium Metasilicate)

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN Number:	3266
Dangerous Goods Class:	8
Packing Group:	III
Proper Shipping Name:	CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM METASILICATE)

15. REGULATORY INFORMATION

ERMA (NZ) Approval Code N/A

EPA Group Standard: HSR002526 – Cleaning Products (Corrosive) Group Standard

For more information refer to the ERMA website: www.epa.govt.nz

16. OTHER INFORMATION

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End of Safety Data Sheet