

SAFETY DATA SHEET

Product Name HI-TECH

Revision Date: 20/05/2024

Version: 001

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : HI-TEC

Recommended Use : Concentrated automatic wash ware detergent liquid.
(MPI Approved C31- All products except dairy)
(All food contact surfaces must be rinsed with portable water after use)

Company Details : Advance International Cleaning System (NZ) Ltd

Address : 663 Great South Road, Penrose, Auckland 1642

Telephone Number : +64 9 525 3792

Emergency Telephone: Number : National Poison Information Centre 0800 764 766

Date of Preparation : 20/05/2024

2. HAZARD IDENTIFICATION

Classified Under EPA (Classification) Notice 2017

GHS Classification and Categories

Corrosive to metals	Category 1
Skin corrosion / irritation	Category 1C
Serious Eye damage / eye irritation	Category 1



DANGER

Code	Hazard Statement
H290	May be corrosive to metals
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Prevention Statement

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.

Response Statement

P101	If medical advice is needed, have product container or label at hand.
P301 + P330 + P331 + P312	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + 353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position 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.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P330	Rinse mouth.
P390	Absorb spillage to prevent material damage.

Disposal Statement:

P406 Store in corrosive resistant container.
P501 Dispose through licensed disposal contractor.

Other Hazards: None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Concentration %
Potassium Hydroxide	1310-58-3	<30
Sodium Metasilicate	10213-79-3	<10
Tetra potassium pyrophosphate	7320-34-5	<10
Phosphonic Acid	6419-19-8	<10
Tetrasodium EDTA	64-02-8	<10
Other Ingredients – Non Hazardous		Level

4. FIRST AID MEASURES

Ingestion	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor, or physician. Get medical attention or advice if you feel unwell.
Eye contact	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes.
Skin contact	Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor, or physician.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

Poison Information Centre: Call 0800 764 766 (0800 POISON)

5. FIRE FIGHTING MEASURE

Suitable extinguishing media	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam. Keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills away from exposures.
Unsuitable extinguishing media	None known.
Specific hazards during firefighting	Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighter's uniform. Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
Special protective equipment for firefighters	Use personal protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes
HAZCHEM CODE	
2R	2- Fine water spray R-Liquid tight chemical protective clothing and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Emergency Precautions	Personal precautions, protective equipment and emergency procedures: Wear suitable protective clothing, gloves, and eye/face protection. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may slippery.
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Environmental precautions

Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water.

Advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up

Soak up spilled product using absorbent, non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

7. HANDLING AND STORAGE**Advice on safe handling**

Wash hands thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product and residue (liquid or vapour) and can be dangerous. Keep container tightly closed. Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.

Conditions for safe storage

Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Keep away from acids.

Advice on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Wash hands before breaks and at the end of workday. Wash face, hands, and any exposed skin thoroughly after handling. Take off

immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Use only with adequate ventilation

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

The Occupational Safety and Health Service, NZ Department of Labour have set no Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES) for this substance. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section. Recommended safety measures for handling the undiluted products.

Biological limit values

None established

Engineering Controls

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof ventilation equipment.

Appropriate organisational controls

Avoid direct contact and/or splashes where possible. Train personnel.

Environmental exposure controls

Should not reach sewage water or drainage ditch undiluted or un neutralised

PERSONAL PROTECTIVE EQUIPMENT

Eye protection

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

Hand protection / skin protection

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when manufacturing this product.

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the glove’s supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm In consultation with the supplier of protective gloves a different type providing similar protection maybe chosen.

Body protection

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

Respiratory protection

Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

Hygiene measures

Wash hands thoroughly after handling.



9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear Red Liquid
Physical State	: Liquid
Odour	: Characteristic
Odour Threshold	: Not available
pH	: 14.0
Solubility	: Soluble in water
Vapour Density (Air=1)	: Not Determined
Boiling point	: 100°C
Melting point	: Not determined
Freezing Point	: Not Known
Ignition Point	: Not Known
Flash Point	: Not Applicable
Flammability	: Not Applicable
UEL/LEL	: Not determined
Partition Coefficient	: Not Applicable
Auto ignition Temperature	: Not Applicable
Decomposition Temperature	: Not determined
Kinematic Velocity Particle	: Not determined
Characteristics	: Not determined
Specific Gravity	: 1.20-1.30 (20°C)
Vapour pressure	: Not Determined
% Volatilities	: Not Applicable
Surface tension	: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability	Stable at room temperature and Pressure
Conditions to avoid	Avoid excessive heat, direct sunlight, moisture, high temperatures. No hazardous reactions known under normal storage and use conditions.
Incompatible Materials	Incompatible with oxidizing agents, acidic agents, including acidic clays and sources of Ignition. Reacts with acids.
Hazardous decomposition	When involved in a fire, this product will generate carbon oxides, Nitrogen Oxides, Sulphur Oxides.
Hazardous reactions	Oxidizing agents, mineral acids, halogenated organic compounds.

11.0 TOXICOLOGICAL INFORMATION

Mixture data:

No adverse health effects expected if the product is handled in accordance with the safety data sheet. Symptoms or effects that may arise if the product is mishandled and the overexposure occurs are:

Acute Effects

Eyes	Causes serious eye irritation.
Skin	This product is irritating to skin.
Ingestion	Health injuries are not known or expected under normal use. Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion of large amounts of this product will result in headaches, nausea, dizziness, and tracheal burning.
Inhalation	Irritating to respiratory tract. Exposure to high concentrations over an extended period may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

Chronic Exposure Health injuries are not known or expected under normal use

12.0 ECOLOGICAL INFORMATION

Persistence/ degradability	The substance is aerobically readily biodegradable and anaerobically biodegradable.
Mobility	No data available for this product.
Toxicity -Environmental Effects	Harmful to aquatic life.
Other adverse effects	Do not release to the marine environment

13.0 DISPOSAL CONSIDERATIONS

Disposal Methods

Do not contaminate storm water drains, natural waterways, or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of in accordance with local and national regulations.

Disposal considerations

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

14.0 TRANSPORT INFORMATION



Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

Road and Rail Transport

Classified as Dangerous Goods by the criteria of New Zealand Dangerous Goods Code for transport by road and rail.

Marine Transport

Classified as Dangerous Goods by the criteria of international Maritime Dangerous Goods Code for transport by sea.

Air Transport

Classified as Dangerous Goods by the criteria of international Air Association Dangerous Goods Regulations for transport by air.

Special precautions for user None

Shipping Name Potassium Hydroxide Solution

Hazard Class	8
UN Number	UN1814
Packing Group	II
Hazchem Code	2R

15.0 REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

HSNO Approval No	HSR002526
Group Standard	Cleaning Products (Corrosive Hazard) Group Standard 2020
Inventory Listing(s)	New Zealand: NZIoC (New Zealand Inventory of Chemicals) All components are listed on the NZIoC inventory or are exempt.

16.0 OTHER INFORMATION

HSNO Classification: 8.1A, 8.2C,8.3A

Date of Preparation: 20/05/2024

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

New Zealand National Poison Information Centre: 0800 764 766

New Zealand Emergency Services: 111

Advance International Cleaning Systems (NZ) Limited: +64 9 525 3792

Every endeavour has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for uses is beyond our control. The information is not intended as an inducement to bargain, and no warranty expressed or implied is made as to its accuracy, reliability or completeness.

Advance International Cleaning Systems (NZ) Limited accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product complies with appropriate Local Councils regulations.

End of Safety Data Sheet