Safety Data Sheet

Tech 345

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

Product Name	**Tech 345**
Recommended Uses	Food industry cleaner
Supplier	Hygiene Technologies Ltd
Street address	28 Rangitane Road Hastings
Telephone Number	(06) 876 4111
Facsimile	(06) 878 3802
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

Dangerous Goods

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Hazardous Substances

Classified as hazardous according to criteria in the HS regulations 2017.

SIGNAL WORD

DANGER

Pictograms

Subclasses

6.1D Substances which are acutely toxic.
8.1A Substances that are corrosive to metals.
8.2B Substances that are corrosive to dermal tissue.
8.3A Substances that are corrosive to ocular tissue.
9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action.

Group Standard 2017

HSR002526 Cleaning Products (Corrosive)

Hazard Statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H402 Harmful to aquatic life.

Precautionary Statements

Prevention

P102 Keep out of reach of children.
P234 Keep only in original container.
P260 Do not breathe mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective 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): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment see section 4 of this SDS.
P363 Wash contaminated clothing before re-use.
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.
P390 Absorb spillage to prevent material damage.

Storage P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal P501 In case of a substance that is in compliance with HSNO approval other than Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion
Sodium hydroxide	1310-73-2	30-60%
Remaining ingredients are not hazardous at the concentrations used	NA	to 100%

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. Immediately rinse mouth with water. Give water to drink to achieve dilution. Seek immediate medical assistance.

Eye Contact Immediately rinse with copious amounts of water for at least 15 minutes. Eyelids to be held apart. Remove contact lenses, if present and easy to do. Continue rinsing. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

Skin Contact If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

Inhaled Remove person from area of exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the minor symptoms, arrange for person to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Advice to Doctor Treat symptomatically. Can cause corneal burns. Refer to National Poisons and Hazardous Chemicals Information Centre 0800 764 766

5. FIRE-FIGHTING MEASURES

Specific Hazard Corrosive chemical.

Suitable Extinguishing Media Not combustible, however, if material is involved in a fire, use: fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder.

Hazchem or Emergency Action Code: 2R

Fire/Explosion Hazards Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas, which is extremely flammable.

6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. Avoid accidents, clean up immediately. Stop leak if safe to do so. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Absorb residues with sand, earth, vermiculite or other inert material and collect and seal in properly labelled containers or drums for disposal. Caution – heat may be evolved on contact with water. Wash area down with excess water and prevent run off into drains. If contamination of sewers or waterways and/or surrounding environment has occurred notify local emergency services, local authorities and the Regional Council.

7. HANDLING AND STORAGE

Handling advice	Avoid skin and eye contact and breathing in vapours and mists. Keep out of reach of children.
Storage advice	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Do not use empty containers for storage of foodstuffs. Store away from incompatible materials. Do not store in aluminium or galvanised containers nor use die-cast zinc or aluminium bungs: plastic bungs should be used. At temperatures greater than 40ºC, tanks must be stress relieved. Keep containers closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Guidelines	No value assigned for this specific material however Workplace Exposure Standards(s) for constituent(s): Sodium hydroxide: ceiling 2 mg/m^3
Engineering Controls	Ensure natural ventilation is adequate under normal use conditions and that air concentrations of components are controlled below Workplace Exposure Standards. Keep containers closed when not in use.
Personal Protective Equipment	The selection of PPE is dependent on a risk assessment. Recommendation: Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to slightly pale yellow
Odour	Neutral
Solubility	Soluble in water
Specific Gravity	1.48 @20ºC
Flash Point (^{0}C)	No flash point
pH	> 14
Freezing Point	Not available
Boiling Point	> 100ºC
Vapour Pressure	Not available
Lower flammable limit	Not flammable
Auto Ignition	Not available

10. STABILITY AND REACTIVITY

Stability	Product is stable under directed conditions of use, storage and temperature. May evolve toxic fumes when heated to decomposition. Absorbs carbon dioxide from the air.
Reactivity	Reacts violently with acids. Reacts exothermically on dilution with water.
Incompatible materials	Incompatible with ammonium salts, aluminium, tin and zinc.

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:

Swallowed	Ingestion may cause nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye Contact	A severe eye irritant. Contamination of eyes can result in burns and permanent injury.
Skin Contact	Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns.
Inhaled	Breathing in mists or aerosols may produce respiratory irritation and/or burns.
Long Term Effects	No information available for the product
Toxicological Data	No data available for the product.

12. ECOTOXICOLOGICAL INFORMATION

Aquatic toxicity: Avoid contaminating waterways. Harmful to aquatic organisms due to high pH.

13. DISPOSAL

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. Normally product is suitable for disposal at an approved landfill site. Processing, use or contamination of this product may change the waste management options. Care should be taken to ensure compliance with national and local regulations. This product is NOT for disposal via municipal sewers, drains, natural streams or rivers.
Special Precautions: Emptied containers retain product residue and may therefore present hazards. Observe all safeguards on label and in this SDS until container is cleaned or destroyed. Decontaminate empty containers with plenty of water. Dispose of washed containers in accordance with local authority requirements (normally at an approved landfill site).

14. TRANSPORT INFORMATION

Road and Rail Transport Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

UN No:	1824
Transport Hazard Class:	8 Corrosive
Packing Group:	II
Proper Shipping Name or Technical Name:	SODIUM HYDROXIDE SOLUTION
Hazchem or Emergency Action Code:	2R

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

UN No:	1824
Transport Hazard Class:	8 Corrosive
Packing Group:	II
Proper Shipping Name or Technical Name:	SODIUM HYDROXIDE SOLUTION
IMDG EMS Fire:	F-A
IMDG EMS Spill:	S-B

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

UN No:	1824
Transport Hazard Class:	8 Corrosive
Packing Group:	II
Proper Shipping Name or Technical Name:	SODIUM HYDROXIDE SOLUTION

15. REGULATORY INFORMATION

ERMA (NZ) Approval Code	HSR 002526
Group Standard 2017	Cleaning Products (Corrosive)
HSNO Classifications	6.1D Substances which are acutely toxic. 8.1A Substances that are corrosive to metals. 8.2B Substances that are corrosive to dermal tissue. 8.3A Substances that are corrosive to ocular tissue. 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action.

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

16. OTHER INFORMATION

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