Safety Data Sheet

Ethasan

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

Product Name	**Ethasan**
Recommended Uses	Evaporating sanitiser
Supplier	Hygiene Technologies Ltd
Street address	28 Rangitane Road Whakatu, Hastings 4172 New Zealand
Telephone Number	(06) 876 4111
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

Dangerous Goods

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

Hazardous Substances

Classified as hazardous according to criteria in GHS 7

GHS

Flammable Liquid – Category 2
Eye Irritation – Category 2A

SIGNAL WORD

DANGER

Pictograms

Flammable
Exclamation Mark

Group Standard 2020

HSR002528

Hazard Statements

H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation.

Precautionary Statements
Prevention

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P280 Wear protective gloves and protective clothing including eye protection.

Response

P101 If medical advice is needed, have product container or label at hand.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370+P378 In case of fire: Use water fog, fine water spray, alcohol resistant foam, carbon dioxide or dry chemical powder.
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.

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion
Ethanol	64-17-5	30 - 60 %
Ingredients determined to be Non-Hazardous	-	Balance

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 Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs, give further water. Seek medical assistance.

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

Skin Contact If skin or hair contact occurs, remove all contaminated clothing and flush skin and hair with running water for at least 15 minutes. For minor skin contact, avoid spreading material on to unaffected skin. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench contaminated skin and clothing with plenty of water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is soluble). Immediately call a POISON CENTRE or doctor for assistance. Wash contaminated clothing before reuse.

Inhaled Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor for advice. Allow person to assume most comfortable position and keep at rest until fully recovered. Seek medical assistance if effects persist.

PPE for First Aiders Wear gloves and safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Wash contaminated clothing and other protective equipment before storing or re- using.

Notes to physician Treat symptomatically.

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

5. FIRE-FIGHTING MEASURES

Specific Hazard Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Suitable Extinguishing Media If material is involved in a fire, use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam or dry agent (carbon dioxide or dry chemical powder).

Fire Fighting Further Advice Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

Hazchem Code •2YE

6. ACCIDENTAL RELEASE MEASURES

Small Spills Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours and dust (from dried product). Soak up spilled product using absorbent, non-combustible material such as earth or sand. Avoid using sawdust or cellulose. When saturated, collect material into suitable, clearly labeled, dry, sealable containers and hold for safe disposal. Once clean-up is complete, flush spill site with plenty of water to eliminate any remaining residue.

Large Spills For large spills from drums and IBCs, alert the local Fire Brigade. If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Ensure adequate ventilation. Work up wind or increase ventilation. Do not touch or walk through spilled material. Stop leak if safe to do so. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. Dispose of waste according to the applicable local and national regulations. If contamination of crops, sewers or waterways has occurred advise local emergency services.

7. HANDLING AND STORAGE

Handling advice Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapours, mist or aerosols.

Storage advice Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and ignition. Keep containers standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Guidelines

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Ethanol (Ethyl alcohol)	1000	18000	-	-	

As published by WorkSafe New Zealand.

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

	These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.
Biological Limit Values	As per the WorkSafe New Zealand the ingredients in this material do not have a biological limit allocated.
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 while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.
Personal Protective Equipment	OVERALLS, GLOVES, SAFETY GLASSES, SAFETY SHOES Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. **When handling individual packs no personal protection equipment is required.** Wear overalls, gloves, safety glasses and safety shoes if handling large quantities or for frequent exposure. If engineering controls are ineffective in controlling airborne exposure, respiratory protection may be required. Available information suggests that gloves made from butyl rubber or nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. When handling do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Alcoholic
Colour	Colourless
Solubility	Soluble in water
Specific Gravity (20 °C)	0.87 – 0.91
Relative Vapour Density (air=1)	>1
Flash Point (^{0}C)	25^{o}C
Autoignition Temperature (^{0}C)	392^{o}C
Flammability Limits (%)	3.5 – 19 (Ethanol)
pH	7 - 8
Freezing Point	N Av
Boiling Point	90^{o}C
Vapour Pressure	5.95 kPa
Viscosity	N Av

10. STABILITY AND REACTIVITY

Stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperatures and sources of ignition
Incompatible materials	Oxidising agents
Reactivity	No known hazardous reactions
Hazardous Decomposition Products	Oxides of carbon and nitrogen, smoke and other toxic fumes

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	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye Contact	Contact with eyes will result in serious eye irritation.
Skin Contact	Contact with skin may result in irritation.
Inhaled	Material may be an irritant to mucous membranes and respiratory tract.
Long Term Effects	No information available for the product.
Acute Toxicity	**Inhalation:** This material has been classified as non-hazardous. **Skin contact:** This material has been classified as non-hazardous. **Ingestion:** This material has been classified as non-hazardous. **Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Causes serious eye irritation. Skin: this material has been classified as not corrosive or irritating to skin. **Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser. **Aspiration hazard:** This material has been classified as non-hazardous. **Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.
Chronic Toxicity	**Mutagenicity:** This material has been classified as non-hazardous. **Carcinogenicity:** This material has been classified as non-hazardous. **Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous. **Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

12. ECOTOXICOLOGICAL INFORMATION

Aquatic Toxicity	This material has been classified as non-hazardous.
Chronic Toxicity	This material has been classified as non-hazardous.
Ecotoxicity	This material has been classified as non-hazardous.
Persistence/Degradability	No information available
Bioaccumulation Potential	No information available
Mobility	No information available

13. DISPOSAL

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations

14. TRANSPORT INFORMATION

Transport of Dangerous Goods Pictograms:

Classified as Dangerous Goods by the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Road and Rail Transport

UN No:	1170
Dangerous Goods Class:	3
Packing Group:	II
Hazchem Code:	•2YE
Emergency Response Guide No:	127
Proper Shipping Name:	ETHANOL SOLUTION
Segregation Dangerous Goods:	Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). 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 No:	1170
Dangerous Goods Class:	3
Packing Group:	II
Proper Shipping Name:	ETHANOL SOLUTION
EmS Code:	F-A, S-I

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:	1170
Dangerous Goods Class:	3
Packing Group:	II
Proper Shipping Name:	ETHANOL SOLUTION

15. REGULATORY INFORMATION

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

Group Standard 2020	HSR002528 - Cleaning Products (Flammable) Group Standard 2020

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

16. OTHER INFORMATION

Revision	2
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Review	14 March 2030

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