

SAFETY DATA SHEET

ISO SHIELD

Infosafe No.: 5GF82
ISSUED Date : 04/05/2020
ISSUED by: Australian Chemical Services

1. IDENTIFICATION

GHS Product Identifier

ISO SHIELD

Company Name

Pacific Hygiene Limited

Address

51 Arrenway Drive, Albany (PO Box 305 503, Triton Plaza, North Shore 0757) Auckland
NEW ZEALAND

Telephone/Fax Number

Tel: (64-9) 477 5700

Fax: (64-9) 476 3602

Emergency phone number

(64-9) 477 5700

E-mail Address

brad.blake@pacifichygiene.com

Recommended use of the chemical and restrictions on use

Ethyl Alcohol solution.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Flammable Liquids: Category 2

Eye Damage/Irritation: Category 2B

Signal Word (s)

DANGER

Hazard Statement (s)

Highly flammable liquid and vapour.

Causes eye irritation.

Precautionary Statement (s)

Keep out of reach of children.

Pictogram (s)

Flame, Exclamation mark



Precautionary statement – Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Do not get in eyes, on skin, or on clothing.
Use personal protective equipment as required.
Keep container tightly closed.

Precautionary statement – Response

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

If eye irritation persists: Get medical advice/attention.

In case of fire: Use carbon dioxide (CO₂), dry chemical, foam, water fog, alcohol resistant foam or water spray for extinction.

Precautionary statement – Storage

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep cool.

Precautionary statement – Disposal

Dispose of contents/container to an approved waste disposal facility.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Ethyl alcohol	64-17-5	60-90 %
Ingredients determined to be non-hazardous at the formulation concentration		to 100%

4. FIRST-AID MEASURES

First Aid Measures

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764 766) or a doctor.

Inhalation

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Ingestion

If product is swallowed or enters mouth, do NOT induce vomiting: wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or doctor.

Skin

Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelids(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek medical attention immediately. Take special care if exposed person is wearing contact lenses.

Advice to Doctor

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire Fighting Measures

If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

Suitable Extinguishing Media

In case of fire: Use carbon dioxide (CO₂), dry chemical, foam, water fog. Alcohol-resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used. Try to contain spills, minimise spillage entering drains or water courses.

Hazards from Combustion Products

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Special Protective Equipment for fire fighters

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA).

Specific Hazards Arising From The Chemical

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both) fire gases. There is a moderate risk of an explosion from this product if commercial quantities are involved in fire. Firefighters should take care and appropriate precautions. Any explosion will likely spread the fire to surrounding materials. Water spray may be used to cool drums involved in a fire, reducing the chances of an explosion.

Hazchem Code

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6. ACCIDENTAL RELEASE MEASURES

Methods And Materials For Containment And Cleaning Up

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include viton, nitrile, butyl rubber, PE/EVAL, responder. Eye/face protective equipment should comprise as a minimum, protective glasses and preferably goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Avoid using sawdust or other combustible material. Any electrical equipment should be non-sparking. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Keep exposure to this product to a minimum and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with substances listed under 'incompatibilities' in Section 10. If you keep more than 250 kg or L of Dangerous Goods of Packaging Group II, you may be required to license the premises of notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure limits set for this product itself.

Ingredient Exposure Limits: TWA Ethyl Alcohol = 1000 mg/m³. STEL = 1880 mg/m³.

Other Exposure Information

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS1715, Protective Gloves: AS2161, Occupational Protective Clothing: AS/NZS4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS1337, Occupational Protective Footwear: AS/NZS2210.

Appropriate Engineering Controls

Maintain concentration below recommended exposure limit.

Local exhaust ventilation system may be required.

Use in a well ventilated area only.

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Respiratory Protection

Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard above.

Eyebaths or eyewash stations should, if practical, be provided near to where this product is being handled commercially.

Eye Protection

Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm.

Emergency eye wash facilities are also recommended in an area close to where this product is being handled.

Body Protection

The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary.

However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Other Information

Protective Material Types: Protective clothing should be made from the following materials - viton, nitrile, butyl rubber, PE-EVAL, responder.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Clear, colourless liquid

Odour

Characteristic odour

Boiling Point

Below 100C at 100kPa

Solubility in Water

Completely soluble

Specific Gravity

0.84 - 0.86

pH

6.5 - 7.5

Evaporation Rate

>1

Volatile Component

Completely volatile at 100C

Flash Point

Approx 13C

Flammability

Flammable

Flammable Limits - Lower

3.5% (ethanol)

Flammable Limits - Upper

19% (ethanol)

Melting/Freezing Point

Approx. -29C

10. STABILITY AND REACTIVITY

Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid

This product should be kept in a cool place, preferably below 30C. Keep containers tightly closed. Keep away from sources of sparks or ignition. Handle and open containers carefully. Any electrical equipment in the area of this product should be flame proofed.

Incompatible materials

Strong oxidising agents

Hazardous Decomposition Products

Combustion forms carbon monoxide and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death.

Hazardous Polymerization

This product will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION

Ingestion

Can cause drunkenness or harmful central nervous system effects. The deliberate ingestion of ethanol (50-100ml) may cause inebriation such that safety is impaired. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Ingestion of a large amount may lead to severe acute intoxication, tremors, convulsion, loss of consciousness, coma, respiratory arrest and death.

Inhalation

Available data indicates that this product is not harmful. In addition, product is unlikely to cause any discomfort or irritation.

Skin

Available data indicates that this product is not harmful. It should present no hazards with normal use. In addition product is unlikely to cause any discomfort in normal use.

Eye

This product is an eye irritant. Symptoms may include stinging and redness of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Carcinogenicity

Ethyl Alcohol when consumed by ingestion is classified by the International Agency for Research on Cancer (IARC) as a Group 1 carcinogen (carcinogenic to humans).

12. ECOLOGICAL INFORMATION

Ecological information

Expected to be toxic to aquatic species.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company.

14. TRANSPORT INFORMATION

Transport Information

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gases
- Class 4.2, Spontaneously Combustible Substances
- Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides
- Class 6, Toxic Substances (where the flammable liquid is nitromethane)
- Class 7, Radioactive Substances.

U.N. Number

1170

UN proper shipping name

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Transport hazard class(es)

3

Packing Group

II

Hazchem Code

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IERG Number

14

15. REGULATORY INFORMATION

Poisons Schedule

Not Scheduled

HSNO Approval Number

Cleaning Products (Flammable) Group Standard 2017 - HSR002528

Australia (AICS)

All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Other Information

NZ Classification:

3.1B—Flammable liquid: high hazard

6.4A—Substances that are irritating to the eye

9.1B—Substances that are ecotoxic in the aquatic environment

16. OTHER INFORMATION

Date of preparation or last revision of SDS

May 2020

Other Information

Reason for revision: Revised classification

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writers knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

END OF SDS

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