

Classified as hazardous according to criteria of Worksafe Australia

1. Identification of the Material and Supplier

Product Name Sologenic
Creation Date: 19 November 2009
Supplier Solo Pak Pty Ltd
ABN 29 076 652 269
Mail Address PO Box 245 Kenmore, QLD, 4069

Telephone: 1300 307 755
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Emergency Telephone: 1300 307 755 (Available 24 Hours)

2. Composition/Information on Ingredients

(Listed when present at 1% or greater, carcinogens at 0.1% or greater)

Chemical Name	% Weight	CAS Registry Number	TWA (mg/m³)	STEL (mg/m³)
Water	< 40	7732-18-5		
Ethanol	65	64-17-5	1880	not set
Glycerine	< 1	56-81-5		

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

3. Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

Class: 3 Flammable Liquid

Poisons Schedule (Aust): Not applicable.

4. First aid measures

For Advice contact a Poisons Information Centre (phone eg. Australia 131126: New Zealand 0 800 764 766) or a Doctor.

For Ingestion:	Inhalation of the fumes from the stomach may cause symptoms similar to direct inhalation. Give plenty of liquid to drink. Do not induce vomiting. If vomiting occurs, give further liquid and seek medical attention.
For Skin:	Not applicable.
For Eyes	If in eyes, hold eyes open, flood with water for at least 15 minutes. If soreness or irritation persists seek medical attention.
For Inhalation	Fumes or vapour may cause irritation, nausea or drowsiness. Remove to fresh air and seek medical advice if symptoms persist.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat symptomatically
Symptoms and Effects	No adverse health effects expected if the product is handled in accordance with this MSDS and the product label.

5. Fire fighting measures

Suitable Extinguishing Media	Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Do not use water.
Hazards From Combustion Products	Toxic and/or irritating fumes including carbon monoxide and carbon dioxide may be emitted.
Precautions For Fire Fighters and Special Protective Equipment	Firefighters should wear self-contained breathing apparatus (SCBA) and complete protective clothing.
Additional Information	Hazchem Code – 2[Y]E

6. Accidental release measures

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

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. Work up wind or increase ventilation. 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. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 14

7. Handling and storage

Handling:

Avoid eye contact and repeated or prolonged skin contact.

Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks. This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

8. Exposure controls /personal protection

National Exposure Standards – Source: National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

Ingredient	CAS No	ES-TWA	ES-STEL
Ethanol	64-17-5	1000ppm 1880mg/m3	-
Biological Limit	Values Not available.		
Engineering Controls	Not normally required.		
Personal Protective Equipment	Eye/face protection – Not required under normal circumstances. Should a splash risk exist then safety glasses or chemical resistant		

goggles should be worn to prevent eye contact.
 skin protection – Not required under normal circumstances.
 Respiratory protection – Not required under normal circumstances.

9. Physical and chemical properties

Physical Description & colour:	Clear viscous gel.
Odour:	Ethanol odour
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Lower than 0° C.
Vapour Pressure:	Not available
Vapour Density:	Not available
Specific Gravity:	0.9
Flash point	23.5°C
pH:	Neutral
Solubility	Moderately soluble in water
Upper and lower flammability limits	No data.
Ignition temp:	Not available

10. Stability and Reactivity

Reactivity:	This material is thermally stable when stored and used as directed.
Conditions to Avoid:	Sources of ignition. Avoid extremes of temperature.

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

Inhalation: Material may be irritant to mucous membranes and respiratory tract.

Skin contact: Repeated or prolonged skin contact may lead to irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Eye contact: May be an eye irritant.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity: No LD50 data available for the product.

12. Ecological information

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. Disposal considerations

Refer to Land Waste Management Authority in your State. Prevent spills entering natural waters.

14. Transport information

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No: 1170

Dangerous Goods Class: 3

Packing Group: II

Hazchem Code: 2[Y]E

Emergency Response Guide No: 14

Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL 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) or radioactive substances (Class 7), however exemptions may apply.

15. Regulatory information

ACIS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

16. Other information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances

CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

UN Number United Nations Number

End of MSDS