



SAFETY DATA SHEET

Bio Ethanol

Preparation

Date:12.11.2024

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY IDENTITY

Product Identifier

Identification of the Substance : Bio - Ethanol /Ethanol denat.

Recommended Use : Industrial products, Paints, commercial products

Suppliers Details

Company Address : Solco Solutions (PTY) LTD
165 Peaceway
Drummond, Durban,
KZN, South Africa

Emergency Telephone Number : +27 82 352 0152 (Office hours)
e-mail : info@solcosolutions.co.za

2. HAZARD IDENTIFICATION

This safety data sheet is provided as a courtesy to convey information and help assist in the safe handling and proper use of this product during transport and storage.

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272 /2008

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statements

H225

H319

Highly flammable liquid and vapor
Causes serious eye irritation.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P233

P241

P242

P305+P351+P338

Keep container tightly closed.

Use explosion-proof electrical / ventilating / lighting/equipment.

Use non-sparking tools.

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

OTHER HAZARDS THAT DO NOT RESULT IN CLASSIFICATION

This substance /mixture contains no components considered to be either persistent bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

The ingredients in the product do not result in exposure to hazardous chemicals

INCI Name	CAS Number	EC-No	Concentration %	Classification
Ethanol	64-17-5	200-578-6	≤98	Flam. Liq.2; Eye Irrit.2; H225, H319 Concentration limits: ≥ 50%; Eye Irrit. 2, H 319
Ethyl Acetate	141-78-6	205-500-4	≥ 2	Flam. Liq.2; Eye Irrit.2; H225, H319 STOT SE / H336

4. FIRST AID MEASURES

Skin Contact : Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye Contact : Immediately rinse thoroughly with plenty of water for at least 15 minutes.
Remove contact lenses if safe to do so. Contact doctor if irritation persists.

Inhalation : Remove victim to fresh air.

Ingestion : If swallowed, rinse mouth with water and afterwards. drink plenty of water.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY

Notes to Physician: No data available



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5. FIRE FIGHTING MEASURES

Suitable Extinguishing media

Water, Alcohol resistant foam, Carbon Dioxide. Dry powder

Unsuitable Extinguishing media

Water jet.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and full protective gear.

Special hazards arising from the substance or mixture

Carbon oxides.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Advice for non-emergency personnel: Do not breath vapours. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area and observe emergency procedures. For personal protection see section 8.

Protective Equipment

Use personal protective equipment, e.g., safety glasses, masks and suitable gloves.

Environment Precautions

Prevent product entering drains. Risk of explosion.

Methods and materials for containment and cleaning up

Major spills: Stop the leak if safe to do so and prevent spillage from entering drains. Contain spill using sand or other absorbent material. Collect residues and seal in drums labelled for disposal. Clean up affected area.

7. HANDLING AND STORAGE

Precautions for safe handling

- : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
- : Change contaminated clothing. Wash hands after working with substance.

Storage Conditions

- : Store in a dry and well-ventilated place. Keep away from heat and sources of ignition in labelled and tightly closed container.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls: Showers, Eye Wash stations, ventilation systems.

Personal protective controls:

- Eye/face protection** : Use approved eye protection. Safety glasses with side shields
- Skin protection** : Use suitable gloves for permanent contact.
- Body protection** : Flame retardant antistatic protective clothing
- Respiratory protection** : Wear suitable respiratory equipment in case of insufficient ventilation.

Environmental exposure controls: Keep container tightly sealed when not in use. Prevent product from entering drains. Risk of explosion.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u> (Physical state, Colour, etc.):	A clear, colourless volatile liquid.
<u>Odour:</u>	Characteristic and spiritous.
<u>Solubility:</u>	Miscible with water.
<u>Density:</u>	0.790 – 0.800
Ethanol:	NLT 98%
Ethyl Acetate	NLT 2%
N-Propanol	0.1 – 1%
Methanol:	NMT20 ppm
Melting point / freezing point:	No information available
Flash point;	Not available

10. STABILITY AND REACTIVITY

Chemical stability

The product is chemically stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Reactivity

Vapours may form explosive mixture with air.

Conditions to avoid

Elevated temperatures

Hazardous decomposition products

Carbon oxides



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Incompatible materials

Rubber, various plastics.

11. TOXICOLOGICAL INFORMATION

Product information

Information on likely routes of exposure

Inhalation

Shall not be classified as a respiratory sensitizer

Skin Contact

Shall not be classified as a skin sensitizer

Eye Contact

Causes serious eye irritation

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Acute toxicity

Based on available data, the classification criteria are not met. No toxicological data available.

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met. No toxicological data available.

Serious Eye Damage/Eye Irritation

Based on available data, causes serious eye irritation.

Respiratory or Skin Sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

No data available.

Reproductive Toxicity

No data available.

STOT single exposure

No data available.

STOT –repeated exposure

No data available.

Aspiration hazard

No data available.



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12. ECOLOGICAL INFORMATION

Eco-Toxicity

No acute ecological hazards are expected with this product at the concentrations predicted under normal use and accidental spill scenarios.

Persistence and degradability

The product is readily biodegradable.

Bio-Accumulative Potential

No data available on bioaccumulation potential of the mixture

Mobility in soil

No data available

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The product should be disposed off in accordance with local regulations and should not be directly entered into sewage systems, nor should it be disposed of into the local environment.

14. TRANSPORT INFORMATION

CLASSIFICATIONS FOR TRANSPORT UNDER:

ADR : European agreement on the International Carriage of Dangerous Goods by Road.
UN number:1170
UN proper shipping name: Ethanol
Transport hazard class: 3
Packaging group: II
Environmental hazards: No

RID : Regulations concerning International Carriage of Dangerous Goods by Rail
UN number:1170
UN proper shipping name: Ethanol
Transport hazard class: 3
Packaging group: II
Environmental hazards: No

ICAO/IATA : International Air Transport Association Standard for transportation of Dangerous by Air
UN number:1170
UN proper shipping name: Ethanol
Transport hazard class: 3
Packaging group: II
Environmental hazards: No

IMO/IMDG : International Maritime Dangerous Goods Code
UN number:1170



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UN proper shipping name: Ethanol

Transport hazard class: 3

Packaging group: II

Marine pollutant: No

15. REGULATORY INFORMATION

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

- EU Directive EC 1272/2008 (EU GHS/CLP) on classification, labelling and packaging of substances and mixtures
- Occupational Health and Safety Act 85 of 1993
- Foodstuffs, Cosmetics and Disinfectant Act 54 of 1972 (as amended)

16. OTHER INFORMATION

Revision of Safety Data Sheet	Revision Date	Revision Number
	12 th November 2024	Revision 1.0
Reason for revision	First Issue	
Abbreviations	PPE: Personal Protective Equipment STOT: Specific Target Organ Toxicity H225: Highly flammable liquid and vapor H319: Causes severe eye irritation H336: May cause dizziness or drowsiness	

DISCLAIMER

The information contained in this Safety Data Sheet is based upon the prevailing knowledge and information available at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality inspection.

The information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in any process, unless specified in the text.