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Material Safety Data Sheet

ETHANOL

Section 1 - Chemical Product and Company Identification

MSDS Name : **ETHANOL**

Synonyms : Ethanol, absolute alcohol, non-denatured ethanol

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	EC no	EINECS/ELINCS
64-17-5	ETHANOL	NA	NA

Section 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Dusts may irritate the respiratory tract with symptoms of coughing, and shortness of breath.

May irritate the G. I. tract. Abdominal pain, nausea, and vomiting may occur. Ingestion of large amounts may result in diuresis and systemic ammonia poisoning. Normal human subjects infused with ammonium acetate exhibit flaccidity of facial muscles, tremor, generalized discomfort, anxiety and impairment of motor performance.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Target Organs : No data found.

Section 4 - First Aid Measures

AFTER INHALATION

Remove to fresh air. Get medical attention for any breathing difficulty..

AFTER SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amount of water at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call physician.

AFTER INGESTION

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

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Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable : Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

HANDLING

Directions for safe Handling : Do not breathe dust. Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure.

STORAGE

Conditions of storage : Keep tightly closed.

Section 8 - Exposure Controls, Personal Protection

ENGINEERING CONTROLS

Safety shower, eye bath and Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection : use respirators and components tested and approved under appropriate government standards. Where risk assessment shows air-purifying respirators are appropriate use adjust mask type respirator.

Hand protection : Compatible chemical resistant gloves.

Eye protection : Chemical safety goggles.

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Section 9 - Physical and Chemical Properties

- a) Appearance Form: Colourless clear liquid
- b) Odour : no data available
- c) Odour Threshold :no data available
- d) pH : no data available
- e) Melting point/freezing point
Melting point/range: Melting point/range: -143.99 °C
- f) Initial boiling point and boiling range: 78.0 - 80.0 °C
- g) Flash point : 14.0 °C - closed cup
- h) Evaporation rate : no data available
- i) Flammability (solid, gas) :no data available
- j) Upper/lower flammability or explosive limits: Upper explosion limit: 19 %(V)
Lower explosion limit: 3.3 %(V)
- k) Vapour pressure : 44.6 mmHg at 20.0 °C
- l) Vapour density: no data available
- m) Relative density: 0.7974 g/cm³
- n) Water solubility: completely miscible
- o) Partition coefficient: log Pow: -0.349 at 24 °C
- p) Autoignition temperature : 363.0 °C
- q) Decomposition temperature: no data available
- r) Viscosity no data available
- s) Explosive properties :no data available
- t) Oxidizing properties :no data available

Other safety information

no data available

Section 10 - Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage. Hygroscopic. Readily absorbs moisture from the air. Tends to lose ammonia under normal conditions.

Reactivity

no data available

Chemical stability

no data available

Possibility of hazardous reactions

no data available

Conditions to avoid

Heat, moisture, incompatibles

Incompatible materials

Strong oxidizing agents

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Section 11 - Toxicological Information

Information on toxicological effects

no data available

Acute toxicity

no data available

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes eye irritation

Respiratory or skin sensitization

May cause respiratory tract irritation.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Signs and Symptoms of Exposure

May cause estrogen-like effects, dry mouth, abdominal cramps, breast enlargement, Effects on fertility, Damage to fetus possible, Bloody urine, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

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Section 14 - Transport Information

14.1 UN number		
ADR/RID: 1170	IMDG: 1170	IATA: 1170
14.2 UN proper shipping name		
ADR/RID: ETHANOL	IMDG: ETHANOL	IATA: Ethanol
14.3 Transport hazard class(es)		
ADR/RID: 3	IMDG: 3	IATA: 3
14.4 Packaging group		
ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user	No data available	

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

Chemical Safety Assessment

no data available

Section 16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

DISCLAIMER

For R&D use only, Not for drug, household or other uses.

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