



# The Andhra Sugars Limited.

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**The Andhra Sugars Limited.**

**RECTIFIED SPIRIT**  
**(INDUSTRIAL ALCOHOL)**



<b>S No.</b>	<b>Characteristic</b>	<b>Description</b>
1.	Technical Name	Rectified Spirit (Industrial alcohol)
2.	Chemical Formula	C <sub>2</sub> H <sub>5</sub> OH
3.	IS 323	2009
4.	CAS Registry No.	64-17-5
5.	HSN	1170



# The Andhra Sugars Limited.

## SPECIFICATIONS

S No.	Specifications	
1.	Specific Gravity at 15.6°C/15.6°C	0.8171
2.	Ethanol Content, (% by vol.), at 15.6°C, Min	94.68
3.	Miscibility with water	Miscible
4.	Alkalinity	Nil
5.	Acidity as CH <sub>3</sub> COOH, (% by weight), Max.	0.0020
6.	Residue on Evaporation, (% by Weight), Max.	0.0050
7.	Aldehyde Content as CH <sub>3</sub> CHO, (g/100ml), Max.	0.0060

### Product Description

- Clear, Colorless liquid with a pleasant alcoholic odour.
- Volatile organic compound with boiling point of 78°C

### Technology

- Industrial Alcohol is produced by the fermentation of Sugar Cane Molasses by the action of microorganism, YEAST.
- Bio still Continuous Fermentation Technology of M/S ALFA LAVAL, SWEDEN is adopted.
- Alcohol is recovered from fermented wash by distillation

### Packing

- Bulk Lorry Tankers
- Barrels and Carboys



# The Andhra Sugars Limited.

## **Applications**

- Drugs & Pharmaceutical Industry
- Organic Chemicals
- Solvent and extraction medium
- Blended with petrol, which is used as a fuel
- Cosmetics
- Beverages

## **Advantages**

- We guarantee the product purity of 99.5 % to 99.8% V/V.
- Quality Control Department is equipped with modern instruments for analysis of Ethanol as per customer requirement.

## **Note**

We can also supply **Denatured Ethanol** by adding approved Denaturants as per customer's requirements. (Required Denaturant shall be supplied by the customer).



# The Andhra Sugars Limited.

## MATERIAL SAFETY DATA

### **Material Identification**

1.	Technical Name	Ethyl Alcohol
2.	Chemical Formula	C <sub>2</sub> H <sub>5</sub> OH
3.	CAS Registry No.	64-17-5
4.	UN No.	1170
5.	Hazard Class	3 (Flammable)
6.	Synonyms	Ethanol, Grain Alcohol
7.	Chemical Classification	Hazard Class
8.	Hazard Chem -Code	2SE
9.	Hazard Waste Id no.	-

### **Product use**

Pure Ethyl Alcohol is used as solvent, chemical intermediate, an preservative in a wide variety of industries including drugs.

### **Hazardous Ingredients**

Hazardous Ingredient	<b>Ethyl Alcohol</b>
Concentration	<b>95%</b>
UN No.	<b>1170</b>
LD <sub>50</sub>	LD <sub>50</sub> (Oral, Rat)=5-15gr/kg



# The Andhra Sugars Limited.

## **Physical and Chemical properties**

State	Liquid
Color	Colourless
Odour	Pleasant alcoholic odour
Molecular Weight	46
Freezing Point	-
Melting Point	-114°C
Specific gravity	0.789
Vapour pressure	-
Vapour density	1.59
Boiling Point	78°C
Water Solubility	Floats and mixes with water
pH	Neutral
Others	-

## **Fire/Explosion Hazard data**

Flammability	<b>Flammable</b>
TOG Flammability	-
Flash Point	<b>12.2°C</b>
Auto ignition temperature	<b>422.8°C</b>
Hazardous combustion products	<b>None</b>
Explosive range	<b>3.3 to 19</b>
Sensitivity to chemical impact	-
Sensitivity to static discharge	-



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## **Reactivity Data**

Chemical Stability	Stable
Reactivity	<b>No reaction with water and common material , Reacts with Oxidizing agents</b>
Incompatibility	<b>Dangerous reaction products Reacts with varying degrees of violence with a wide range of oxidants includes silver nitrate.</b>

## **Health Hazard Data**

Route of entry	<b>Inhalation, skin contact, ingestion</b>
Permissible limits	<b>TLV:1000 ppm</b>
Lethal dose	
Effects on chronic exposure/acute exposure	Continuous contact of the liquid, may result in irritation. The vapors may be dangerous if inhaled in large concentration. If taken large quantities would cause fatty infiltration of the liver and heart muscle, leptomenigitis and gastritis and results in general alcohol poisoning.
Sensitization to material	-
Synergistic materials	-



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## Preventive Measures

Storage requirements	When used large quantities, U.G. Storage tank outside the building are preferred, smaller amounts may be stored outside the building in original shipping container.
Handling Methods	Tanks, Pipelines and other accessories are used in storage and transportation of Ethyl Alcohol should be bonded together and grounded, vats should be protected by Flame Arresters.
Leak/spill handling	Shut off all possible sources of ignition. Wear face shield goggles & gloves. Mop up with plenty of water and run to waste diluting greatly with running water. Ventilate area well to evaporate remaining liquid and dispel vapors.
Personal protective equipment	<b>Rubber Gloves and Gum Boots, Goggles should be worn while handling</b>
Waste disposal	-
Special shipping information	-





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## **Emergency/First-Aid measures**

### **Fire extinguishments/Special procedure:**

Extinguish with dry chemical powder or Alcohol Foam or CO<sub>2</sub>

### **FIRST AID ANTIDOTES**

Eyes/Skin: Affected area should be washed with running water gently for at least 15 minutes and get medical attention.

### **ADDITIONAL INFORMATION**

Issue warning for high flammability. Disperse and flush

### **MANUFACTURER / SUPPLIER / CONSUMER DATA**

#### **THE ANDHRA SUGARS LIMITED**

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## **Disclaimer**

The information contained in this Safety Data Sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as its accuracy, suitability for a particular application or results to be obtained from them. It is however, ensured that the information contained in the MSDS is relevant to the product manufactured/handled or sold as the case may be by us.