



## MATERIAL SAFETY DATA SHEET

Complying to EEC Directive 91/155

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### 1. Identification of the substance/Preparation and Company:

**Product name** : SUGARCANE DISTILLATE ABOVE 70%vol.

**Company name** : E & A Scheer B.V.  
**Address** : Herengracht 316  
1016 CD Amsterdam  
The Netherlands  
**Phone** : +31 20 624 34 12  
**Fax** : +31 20 622 09 76

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### 2. Composition / Information on ingredients:

**Formula** :  $\text{CH}_2\text{CH}_3\text{OH}$   
**CAS no.** : 64-17-5 Ethanol

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### 3. Hazards Identification:

Highly flammable and explosive vapours.

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### 4. First-aid measures:

**Eyes** : Irrigate with clear water and  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
**Skin** : Wash with soap and water and remove contaminated clothing.  
**Inhalation** : Remove person to fresh air. Keep warm and at rest.  
Apply artificial respiration if breathing has ceased or shows signs of failing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
**Ingestion** : Wash out mouth with water. Do NOT induce vomiting. Give milk or water.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.

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### 5. Fire-fighting measures:

**Small fires** : Use CO<sub>2</sub>, alcohol foam, dry chemicals, sand, earth.  
**Large fires** : Use alcohol type foam or water spray. Keep containers cool by spraying  
with water.

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### 6. Accident release measures:

Extinguish any naked flames or sources of ignition. Avoid inhaling vapour. Evacuate personnel from area. Contain and absorb liquid using sand or earth. Do not allow to enter drains, if it has inform Fire Service. Transfer into suitable containers for recovery or disposal.

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### 7. Handling and Storage:

Avoid contact with skin and eyes. Avoid inhaling vapour. Use in well ventilated area. Keep in tightly closed, clearly labelled containers. No smoking. Naked flames, hot elements or other ignition sources must not be present. Storage and handling should be adequately earthed to prevent the build up of static discharges.

**Suitable** : containers mild steel and stainless steel.  
**Unsuitable** : aluminium, copper.

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### 8. Exposure controls/personal protection:

Avoid inhaling vapour. Avoid contact with skin and eyes. Wear PVC gloves and safety glasses. Ensure good ventilation. Use a self-contained breathing set if high vapour concentrations are present.

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**9. Physical and Chemical properties:**

Clear yellow / brown / colourless liquid with characteristic odour.

<i>Boiling point</i>	:	+ 78.5 °C (pure ethanol)	
<i>Flash point</i>	:	21 °C. at 70%vol.	20 °C at 80%vol.
		21.5 °C. at 75 %vol	14 °C at 95 %vol.
<i>Flammability</i>	:	Highly flammable	
<i>Viscosity</i>	:	1.52 at 20 °C.	
<i>Relative Vapour density (Air=1)</i>	:	1.59	
<i>Solubility in water</i>	:	Complete	

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**10. Stability and reactivity:**

Stable. Will react with strong oxidising agents. Burning can produce the following combustion products; carbon dioxide in sufficient concentrations can act as an asphyxiant and or carbon monoxide which is highly toxic if inhaled.

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**11. Toxicological information:**

Inhalation of high concentrations of vapour may cause headache, irritation of nose, throat and respiration tract. Ingestion may cause vomiting, loss of co-ordination, temporary or permanent blindness, coma, death. It is unlikely to be irritating to the skin.

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**12. Ecological information:**

<i>Mobility</i>	:	Ethanol will dissolve rapidly in water and is poorly absorbed onto soils or sediments.
<i>Biodegradability</i>	:	Ethanol is expected to be readily biodegradable.
<i>Bio accumulation</i>	:	Ethanol is unlikely to bioaccumulate.
<i>Ecotoxicity</i>	:	Ethanol is rated as non-hazardous to aquatic species. Tests on the following species gave a 24h LC50 of 11400mg/litre:trout. Toxicity threshold concentration (cell multiplication inhibition test) 5000mg/litre algae.

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**13. Disposal considerations:**

If not recoverable, dispose of for incineration by a licensed operator.

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**14. Transport information:**

<b><u>Packing group:</u></b>		<b><u>Air</u></b>	
UN number:	:	1170	ICAO/IATA Class : 3
UN Pack group	:	II	UN Packaging Group : II
Hazchem code	:	2 (S)E	Proper Shipping name : Ethanol
Class	:	3	
<b><u>Sea:</u></b>		<b><u>Road / Rail:</u></b>	
IMDG Class	:	3.2	ADR/RID Class : 3
IMDG ES	:	3-06	ADR/RID Item no. : II
MFAG	:	305	ADR/RID Hazard ID no. : 33
UN Packaging	:	II	
Proper Shipping name	:	Ethanol	

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**15. Regulatory Information:**

<i>Classification</i>	:	FLAMMABLE LIQUID
<i>Symbols</i>	:	F EEC No. 603-002-00-5
<i>Risk phrases</i>	:	R11: Highly flammable
<i>Safety phrases</i>	:	S7 : Keep container tightly closed S16 : Keep away from sources of ignition - No smoking.

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**16. Other Information:**

SDS first issued 20.01.1997  
SDS data revised 01.01.2005

To the best of our knowledge this information is accurate and the Company cannot accept any responsibility for liability arising out of the use of information or any use, application or processing of the product described herein.