

## ESS eSDS™ Services ESS eSDS™ Cover Sheet

TO:	Greenergy
DATE:	08 Oct 10 15:15

SDS DETAILS	
CAS:	64-17-5
SUBSTANCE:	Ethanol
SDS LANGUAGE:	English
NOTES:	

DEAL DETAILS	
INCOMING REF NO:	
VESSEL / BARGE:	
LOCATION:	United Kingdom
ESTIMATED ARRIVAL DATE:	
APPROXIMATE TONNAGE:	
ADDITIONAL INFORMATION:	



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING		
Commercial Product Name	Bioethanol	
Use of the substance/preparation	Component for blending into transport fuels	
Company	Greenergy Fuels Limited	
	198	
	High Holborn	
	London	
	WC1V 7BD	
	United Kingdom	
Telephone number	02074047700	
Email	msds-info@greenergy .com	
Fax		
Emergency telephone number	02074047700	

Page: 2 Revision nr: 1

Date: 25/6/2009

Supersedes: 0/0/0

CAS 64-17-5

www.lisam.com



flammable

#### 2. HAZARDS IDENTIFICATION

Most important hazards : The product is classified as dangerous in accordance with Directive 67/548/EEC.

Highly flammable.

: Not hazardous Environmental properties

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Value(s) Substance name CAS No / EC No / EC Index Symbol(s) R-Phrase(s)

**Ethanol** 100 % 64-17-5 / 200-578-6 / 603-002-00-5 F 11

Full text of R-phrases : See section 16.

#### 4. FIRST AID MEASURES

First aid measures

Inhalation : Keep at rest.

Move to fresh air.

Oxygen or artificial respiration if needed.

: Wash off immediately with soap and plenty of water. Skin contact

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact

minutes.

Ingestion : Rinse mouth.

Drink plenty of water.

Additional advice : Consult a physician if necessary

Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Fire Hazard : Highly flammable.

Suitable extinguishing media

: Use dry chemical, CO2, water spray or alcohol-resistant foam

Extinguishing media which must not be : High volume water jet

used for safety reason

Specific hazards : Evacuate personnel to safe areas.

Vapours may form explosive mixture with air.

Vapours are heavier than air and may spread along floors.

The pressure in sealed containers can increase under the influence of heat.

Flash back possible over considerable distance. Burning produces obnoxious and toxic fumes. Cool containers / tanks with spray water. Possible decomposition products are: COx

Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

: Wear personal protective equipment. Special protective equipment for

CAS 64-17-5

Revision nr : 1

Date : 25/6/2009

Supersedes: 0/0/0

Page: 3

www.lisam.com

#### 5. FIRE-FIGHTING MEASURES (continued)

firefighters Wear self-contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : See also section 8.

Wear personal protective equipment. Do not breathe vapours or spray mist.

Ensure adequate ventilation

Avoid contact with skin, eyes and clothing.

Do not smoke.

Keep away from open flames, hot surfaces and sources of ignition.

Ensure all equipment is electrically grounded before beginning transfer operations.

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Remove all sources of ignition.

Do not use tools which may produce sparks. Prevent further leakage or spillage if safe to do so.

Dam up.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust).

Sweep up and shovel into suitable containers for disposal.

After cleaning, flush away traces with water. Dispose of in accordance with local regulations.

#### 7. HANDLING AND STORAGE

Storage : Keep tightly closed in a dry, cool and well-ventilated place.

Store in original container.

Keep away from open flames, hot surfaces and sources of ignition.

Keep away from direct sunlight.

Do not store near or with any of the incompatible materials listed in section 10.

Handling : See also section 8.

Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapours or spray mist.

Ensure adequate ventilation

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product. Keep away from open flames, hot surfaces and sources of ignition.

Do not smoke.

Do not breathe vapours or spray mist.

Always replace cap after use.

Do not burn, or use a cutting torch on, the empty drum.

Do not puncture or incinerate.

Ensure all equipment is electrically grounded before beginning transfer operations.

Specific use(s) : Industrial

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Ensure adequate ventilation

Not required under normal use

In case of insufficient ventilation wear suitable respiratory equipment. (type A)

Hand protection : Nitrile rubber - Butylrubber (EN 374)

The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical

Page : 4
Revision nr : 1

Date: 25/6/2009 Supersedes: 0/0/0

CAS 64-17-5

www.lisam.com

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

requirements (protection against cutting/drilling, skill, thermal protection), and the

instructions/specification of the gloves supplier.

Eye protection : Safety glasses (EN166)

Hygiene measures : Use only in area provided with appropriate exhaust ventilation.

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and immediately after handling the product.

Exposure limit(s) : Ethanol : TLV-TWA (mg/m³) : 260 (the Netherlands); 950 (Norway); 960 (Germany,

Suisse); 1000 (Sweden, Czech Republic, Estonia, Lithuania, Bulgaria); 1900 (Denmark, France, Finland, Greece, Austria, Hungary, Slovenia, Croatia); 1907 (

Belgium); 1910 (Spain); 1920 (United Kingdom); 1000 ppm (Portugal)

Ethanol: TLV-STEL (mg/m³): 1900 (the Netherlands, Lithuania, Estonia); 1920 (Suisse); 2500 (Finland); 3000 (Czech Republic); 3800 (Austria); 7600 (Hungary);

9500 (France)

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : Colourless
Odour : Alcoholic

pH : No data available

Melting point/range : -114°C
Boiling point/range : 78°C
Flash point : 12°C
Autoignition temperature : ca 425°C
Explosive properties : LEL: 3.4%

UEL: 15,0%

Oxidising properties : Not applicable

Vapour pressure : ca 57,3 hPa @ 20°C

Partition coefficient (n-octanol/water) : ca -0,32

Viscosity : No data available

Water solubility : Miscible
Vapour density : 1,59
Evaporation rate : 3,4
Density : 0,79

#### 10. STABILITY AND REACTIVITY

Stability : Stable at normal conditions.

Hazardous decomposition products : Burning produces obnoxious and toxic fumes.

Possible decomposition products are: COx

Materials to avoid : Oxidizing agent, acids and bases

Conditions to avoid : Keep away from heat and sources of ignition.

Exposure to sunlight.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : • Ethanol : LD50/oral/rat : 1501 mg/kg

• Ethanol : LC50/inhalation/4h/rat : 124,7 mg/l

Inhalation : Inhalation of high vapour concentrations may cause symptoms like headache,

dizziness, tiredness, nausea and vomiting.

Skin contact : Prolonged skin contact may cause skin irritation and/or dermatitis.

Page: 5 Revision nr: 1

Date: 25/6/2009 Supersedes: 0/0/0

#### CAS 64-17-5

www.lisam.com

#### 11. TOXICOLOGICAL INFORMATION (continued)

Eye contact : May be irritating.

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Ingestion

Chronic toxicity : No adverse effects are expected.

#### 12. ECOLOGICAL INFORMATION

Persistence and degradability : Readily biodegradable

Mobility : Miscible

**Ecotoxicity effects** : • Ethanol : LC50/96h/fish : 14200 mg/l (Pimephales promelas), 10000 - 11500mg/l

(Alburnus alburnus)

• Ethanol : LC50/48h/daphnia : 9268 - 14221 mg/l (Daphnia magna)

Not hazardous

Bioaccumulation : log Pow = -0.32

Does not bioaccumulate

#### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Dispose of in accordance with local regulations.

Do not burn, or use a cutting torch on, the empty drum.

Do not puncture or incinerate.

EEC, 91/689/EEC)

Codes of waste (2001/573/EC, 75/442/ : Waste codes should be assigned by the user, preferably in discussion with the

waste disposal authorities.

The following Waste Codes are only suggestions:

07 01 04\* - other organic solvents, washing liquids and mother liquors 15 01 10\* - packaging containing residues of or contaminated by dangerous

substances

#### 14. TRANSPORT INFORMATION

Class



ADR/RID

UN-No : 1170

: ETHANOL (ETHYL ALCOHOL) Proper shipping name

: 3 Class : 11 Packing group

**IMDG** 

UN-No : 1170 Class : 3 Packing group

Proper shipping name : ETHANOL (ETHYL ALCOHOL)

EmS : F-D, S-U

ICAO/IATA

UN-No : 1170 Class : 3 Packing group

: ETHANOL (ETHYL ALCOHOL) Proper shipping name

SAFETY DATA SHEET	Page : 6
5/11 Z/11/1 G11ZZ1	Revision nr : 1
	Date : 25/6/2009
CAS 64-17-5	Supersedes : 0/0/0
3/13/31/17/3	
	www.lisam.com

#### 15. REGULATORY INFORMATION

 $Symbol(s): \hspace{1cm} : F - Highly flammable \\ R-phrase(s) \hspace{1cm} : R11 - Highly flammable.$ 

S-phrase(s) : S 2 - Keep out of the reach of children.

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

Labelling : The product is classified as dangerous in accordance with Directive 67/548/EEC.

EINECS: 200-578-6

WGK : 1

#### 16. OTHER INFORMATION

Sources of key data used to compile the: European Chemicals Bureau

datasheet

Text of R phrases mentioned in Section: R11 - Highly flammable.

3

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 1967/548/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

**End of document**