Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Print date – 24/03/15 MSDS - 6700

1. Identification of the substance/mixture and of the company/undertaking

MSDS-ID: Unolux Dual Bond – Liquid (FBD084)

Manufacturer:

Manufacturer/supplier: Made for UnoDent Ltd. Tel: 01376 500582

Address: 10 Perry Way, Witham, Essex Fax: 01376 500581

CM8 3SX, UK

Information sector: Technical Department Tel: 01376 500582

Emergency information: Technical Department Emergency e-mail: <u>info@unodent.com</u>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F - Highly flammable

R phrases:

Highly flammable.

May cause sensitisation by skin contact.

GHS classification

Hazard Statements:

Highly flammable liquid and vapour.

2.2. Label elements

Signal word: Danger Pictograms: GHS02



Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P233 Keep container tightly closed.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P102 Keep out of reach of children.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterisation

Ethanol.

Sum formula: C2H6O

Molecular weight: 46,07

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-578-6	ethanol, ethyl alcohol	< 100 %
64-17-5	F - Highly flammable R11	
603-002-00-5	Flam. Liq. 2; H225	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap. Change contaminated clothing. Rub in high-fat content cream.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, immediately drink: Water. Consult physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Atomized water. alcohol resistant foam. Carbon dioxide (CO2). Extinguishing powder. Sand.

Extinguishing media which must not be used for safety reasons

High power water jet.

5.2. Special hazards arising from the substance or mixture

Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition - No smoking.

The following must be prevented: inhalation. skin contact. Eye contact.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep away from sources of ignition - No smoking. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls









Protective and hygiene measures

When using do not eat or drink.

Respiratory protection

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

Eye protection

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless-transparent

Odour: characteristic

pH-Value: Test method neutral

Changes in the physical state

Melting point: ca. -115 °C Boiling point: ca. 80 °C Flash point: 12 °C

Vapour pressure:

(at 20 °C) 59 hPa

Density (at 20 °C): ca. 0,8 g/cm³
Water solubility: complete miscible

Viscosity / dynamic:

(at 20 °C) 1,3 mPa·s

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

heat.

10.5. Incompatible materials

Oxidizing agents. peroxides. acid. Alkali metals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Acute toxicity, oral LD50: (species: Rat.): > 6200 mg/kg; Acute toxicity, inhalant 95.6 mg / I /4 h

CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
64-17-5	ethanol, ethyl alcohol						
	oral	LD50	6200 mg/kg	Rat	IUCLID		
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS		

Irritation and corrosivity

In case of prolonged or frequently repeated skin contact: irritant.; Following eye contact: irritant.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity (Leuciscus idus): LC50: > 8140 mg / I / 48 h (Ethanol); Acute Daphnia toxicity (Daphnia magna): EC50: 9268 - 14221 mg / I / 48 h

CAS No	Chemical name							
	Aquatic toxicity	Method	Dose	h	Species	Source		
64-17-5	ethanol, ethyl alcohol							
		EC50 mg/l	9268 - 14221	48	Daphnia magna	IUCLID		

12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances

Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: 1170

14.2. UN proper shipping name: ETHANOL (ETHYL ALCOHOL)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)

E2

Marine transport (IMDG)

14.1. UN number: 1170

14.2. UN proper shipping name: ETHANOL (ETHYL ALCOHOL)

14.3. Transport hazard class(es): 3

14.4. Packing group: II Hazard label: 3



Special Provisions: 144
Limited quantity: 3 L
EmS: F-E, S-D

Other applicable information (marine transport)

F2

Air transport (ICAO)

14.1. UN number: 1170

14.2. UN proper shipping name: ETHANOL (ETHYL ALCOHOL)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

IATA-packing instructions - Passenger:

IATA-max. quantity - Passenger:

IATA-packing instructions - Cargo:

IATA-max. quantity - Cargo:

Other applicable information (air transport)

E2 : Y341

14.5. Environmental hazards

Dangerous for the environment: no

SECTION 15: Regulatory information

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

National regulatory information

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

11 Highly flammable.

43 May cause sensitisation by skin contact.

Full text of H statements referred to under Sections 2 and 3

H225 Highly flammable liquid and vapour.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)