

## SAFETY DATA SHEET ULTRASOLVE PENS

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name                                   ULTRASOLVE PENS  
Product No.                                    ULS-p, EULS12P, EEPK000, ZE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses                                Cleaning Product  
Uses advised against                        At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

#### 1.3. Details of the supplier of the safety data sheet

Supplier                                        ELECTROLUBE. A division of HK  
WENTWORTH LTD  
ASHBY PARK, COALFIELD WAY,  
ASHBY DE LA ZOUCH, LEICESTERSHIRE  
LE65 1JR  
UNITED KINGDOM  
+44 (0)1530 419600  
+44 (0)1530 416640  
info@hkw.co.uk

#### 1.4. Emergency telephone number

+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H336; Asp. Tox. 1 - H304
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

##### Classification (1999/45/EEC)

Xn; R65. Xi; R36/38. F; R11. N; R50/53. R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

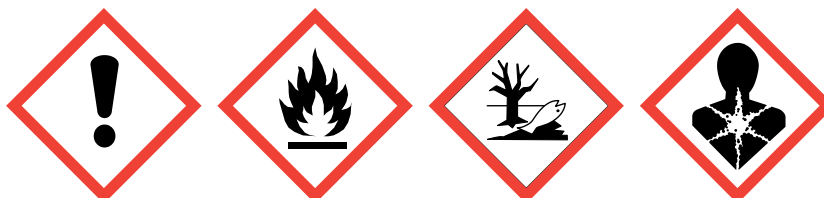
##### Environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.

#### 2.2. Label elements

Contains                                        CYCLOHEXANE

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

# ULTRASOLVE PENS

## Hazard Statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.

## Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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## Supplementary Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.

## 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>CYCLOHEXANE</b>		<b>30-60%</b>
<b>CAS-No.: 110-82-7</b>	<b>EC No.: 203-806-2</b>	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 2 - H225	F;R11	
Skin Irrit. 2 - H315	Xn;R65	
STOT SE 3 - H336	Xi;R38	
Asp. Tox. 1 - H304	R67	
Aquatic Acute 1 - H400	N;R50/53	
Aquatic Chronic 1 - H410		
<b>PROPAN-2-OL</b>		<b>10-30%</b>
<b>CAS-No.: 67-63-0</b>	<b>EC No.: 200-661-7</b>	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 2 - H225	F;R11	
Eye Irrit. 2 - H319	Xi;R36	
STOT SE 3 - H336	R67	
<b>1-METHOXY-2-PROPANOL</b>		<b>10-30%</b>
<b>CAS-No.: 107-98-2</b>	<b>EC No.: 203-539-1</b>	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 3 - H226	R10	
STOT SE 3 - H336	R67	



# ULTRASOLVE PENS

## **4.3. Indication of any immediate medical attention and special treatment needed**

Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Extinguishing media**

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

#### **Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### **Unusual Fire & Explosion Hazards**

HIGHLY FLAMMABLE! Solvent vapours may form explosive mixtures with air.

#### **Specific hazards**

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

#### **Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

#### **Storage Class**

Flammable liquid storage.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# ULTRASOLVE PENS

## 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm	375 mg/m <sup>3</sup>	150 ppm	560 mg/m <sup>3</sup>	Sk
CYCLOHEXANE	WEL	100 ppm	350 mg/m <sup>3</sup>	300 ppm	1050 mg/m <sup>3</sup>	
HEPTANE	WEL	500 ppm				
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

### Ingredient Comments

WEL = Workplace Exposure Limits

### PROPAN-2-OL (CAS: 67-63-0)

#### DNEL

Industry	Dermal	888	mg/kg/day
Industry	Inhalation.	500	mg/m <sup>3</sup>
Consumer	Dermal	319	mg/kg/day
Consumer	Inhalation.	89	mg/m <sup>3</sup>
Consumer	Oral	26	mg/kg/day

#### PNEC

Freshwater	140.9	mg/l
Marinewater	140.9	mg/l
Sediment	552	mg/kg
Soil	28	mg/kg

## 8.2. Exposure controls

### Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Respiratory equipment

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2. EN14387

### Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. Gloves should conform to EN374

### Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166

### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid Clear
Colour	Colourless.
Odour	Organic solvents.
Solubility	Immiscible with water
Initial boiling point and boiling range (°C)	>80 (>176 F)
Relative density	0.78 @ 20 °c (68 F)
Vapour pressure	11.52 kPa @ 20 °c (68 F)
Flash point (°C)	0 (32 F) CC (Closed cup).
Auto Ignition Temperature (°C)	>200 (392 F)

# ULTRASOLVE PENS

Flammability Limit - Lower(%) 0.7

Flammability Limit - Upper(%) 8.3

## **9.2. Other information**

Not available.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

Reacts violently with strong oxidising substances.

### **10.2. Chemical stability**

Stable under normal temperature conditions.

### **10.3. Possibility of hazardous reactions**

Not available.

#### **Hazardous Polymerisation**

Will not polymerise.

### **10.4. Conditions to avoid**

Avoid heat. Avoid contact with oxidisers or reducing agents.

### **10.5. Incompatible materials**

#### **Materials To Avoid**

Strong oxidising substances.

### **10.6. Hazardous decomposition products**

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Inhalation**

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Irritating to skin. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

#### **Eye contact**

Irritating to eyes.

#### **Route of entry**

Inhalation. Skin absorption.

#### **Toxicological information on ingredients.**

##### **Toxic Dose 1 - LD 50**

222 mg/kg (ivn-mouse)

##### **Toxic Conc. - LC 50**

103 ppm/4h (inh-rat)

#### **HEPTANE (CAS: 142-82-5)**

##### **Toxic Dose 1 - LD 50**

12705 mg/kg (oral rat)

##### **Toxic Dose 2 - LD 50**

813 mg/kg (oral-mouse)

#### **CYCLOHEXANE (CAS: 110-82-7)**

**ULTRASOLVE PENS**  
**PROPAN-2-OL (CAS: 67-63-0)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

5280 mg/kg Rat

**Acute Toxicity (Dermal LD50)**

12800 mg/kg Rabbit

**Acute Toxicity (Inhalation LC50)**

72.6 mg/l (vapours) Rat 4 hours

**1-METHOXY-2-PROPANOL (CAS: 107-98-2)**

**Toxic Dose 1 - LD 50**

5200 mg/kg (oral rat)

**Toxic Dose 2 - LD 50**

11700 mg/kg (oral-mouse)

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Dangerous for the environment if discharged into watercourses.

**12.1. Toxicity**

**Ecological information on ingredients.**

**HEPTANE (CAS: 142-82-5)**

LC 50, 96 Hrs, Fish mg/l

4.924

**CYCLOHEXANE (CAS: 110-82-7)**

LC 50, 96 Hrs, Fish mg/l

42.3

**PROPAN-2-OL (CAS: 67-63-0)**

**Acute Toxicity - Fish**

LC50 96 hours 9640 mg/l Pimephales promelas (Fat-head Minnow)

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 13299 mg/l Daphnia magna

**Acute Toxicity - Aquatic Plants**

EC50 72 hours > 1.000 mg/l Scenedesmus subspicatus

**Acute Toxicity - Microorganisms**

EC50 > 1.000 mg/l Activated sludge

**1-METHOXY-2-PROPANOL (CAS: 107-98-2)**

LC 50, 96 Hrs, Fish mg/l

20800

EC 50, 48 Hrs, Daphnia, mg/l

23300

**12.2. Persistence and degradability**

**Degradability**

The product is biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil**

**Mobility:**

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

# ULTRASOLVE PENS

No information required.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

### 14.2. UN proper shipping name

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, 1-METHOXY-2-PROPANOL)

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



### 14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



### 14.6. Special precautions for user

EMS	F-E, S-E
Emergency Action Code	•3YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)



# ULTRASOLVE PENS

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

## SECTION 15: REGULATORY INFORMATION

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

#### **Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

#### **Guidance Notes**

Workplace Exposure Limits EH40.

#### **EU Legislation**

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

**Issued By** Helen O'Reilly

**Revision Date** APRIL 2013

**Revision** 6

**SDS No.** 10448

#### **Risk Phrases In Full**

R10	Flammable.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R62	Possible risk of impaired fertility.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## ULTRASOLVE PENS

### Hazard Statements In Full

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SAFETY DATA SHEET ULTRASOLVE AEROSOL

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name ULTRASOLVE AEROSOL  
Product No. ULS-a, EULS200D, EULS400D, ZE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning Product  
Uses advised against At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

#### 1.3. Details of the supplier of the safety data sheet

Supplier ELECTROLUBE. A division of HK  
WENTWORTH LTD  
ASHBY PARK, COALFIELD WAY,  
ASHBY DE LA ZOUCH, LEICESTERSHIRE  
LE65 1JR  
UNITED KINGDOM  
+44 (0)1530 419600  
+44 (0)1530 416640  
info@hkw.co.uk

#### 1.4. Emergency telephone number

+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Aerosol 1 - H222
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H336
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Classification (1999/45/EEC) Xi; R36/38. F; R11. N; R50/53. R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

##### Physical and Chemical Hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

#### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

##### Hazard Statements

H222	Extremely flammable aerosol.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

# ULTRASOLVE AEROSOL

<p><b>Precautionary Statements</b></p>	<p>H336 H410</p> <p>P210</p> <p>P211 P251 P280 P305+351+338</p> <p>P313</p>	<p>May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.</p> <p>Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves, eye and face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.</p>
<p><b>Supplementary Precautionary Statements</b></p>	<p>P261 P332+313 P410+412</p>	<p>Avoid breathing vapour/spray. If skin irritation occurs: Get medical advice/attention. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.</p>

## 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<b>CYCLOHEXANE</b>	<b>30-60%</b>
CAS-No.: 110-82-7	EC No.: 203-806-2
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) F;R11 Xn;R65 Xi;R38 R67 N;R50/53
<b>PROPAN-2-OL</b>	<b>10-30%</b>
CAS-No.: 67-63-0	EC No.: 200-661-7
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R67
<b>1-METHOXY-2-PROPANOL</b>	<b>10-30%</b>
CAS-No.: 107-98-2	EC No.: 203-539-1
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC) R10 R67



# ULTRASOLVE AEROSOL

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

Aerosol cans may explode in a fire.

#### Specific hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Move container from fire area if it can be done without risk.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Provide good ventilation.

### 7.2. Conditions for safe storage, including any incompatibilities

Store at moderate temperatures in dry, well ventilated area.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm	375 mg/m <sup>3</sup>	150 ppm	560 mg/m <sup>3</sup>	Sk
CYCLOHEXANE	WEL	100 ppm	350 mg/m <sup>3</sup>	300 ppm	1050 mg/m <sup>3</sup>	
HEPTANE	WEL	500 ppm				
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

# ULTRASOLVE AEROSOL

## PROPAN-2-OL (CAS: 67-63-0)

<b>DNEL</b>			
Industry	Dermal	888	mg/kg/day
Industry	Inhalation.	500	mg/m <sup>3</sup>
Consumer	Dermal	319	mg/kg/day
Consumer	Inhalation.	89	mg/m <sup>3</sup>
Consumer	Oral	26	mg/kg/day
<b>PNEC</b>			
Freshwater	140.9	mg/l	
Marinewater	140.9	mg/l	
Sediment	552	mg/kg	
Soil	28	mg/kg	

## **8.2. Exposure controls**

### **Protective equipment**



### **Process conditions**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

### **Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### **Respiratory equipment**

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2. EN14387

### **Hand protection**

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. Gloves should conform to EN374

### **Eye protection**

Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166

### **Other Protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### **Hygiene measures**

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Aerosol. Liquid
<b>Colour</b>	Colourless.
<b>Odour</b>	Lemon.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range (°C)</b>	>80 (176 F)
<b>Melting point (°C)</b>	-29 (-20.2 F)
<b>Relative density</b>	0.780 @ 20 °c (68 F)
<b>Vapour pressure</b>	11.5 kPa @ 20 °c (68 F)
<b>Flash point (°C)</b>	0 (32 F) CC (Closed cup).
<b>Auto Ignition Temperature (°C)</b>	> 250 (482 F)
<b>Flammability Limit - Lower(%)</b>	0.6
<b>Flammability Limit - Upper(%)</b>	8.3

### **9.2. Other information**

Not available.

**Volatility Description** Volatile

## **SECTION 10: STABILITY AND REACTIVITY**

# ULTRASOLVE AEROSOL

## **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

## **10.2. Chemical stability**

Stable under normal temperature conditions.

## **10.3. Possibility of hazardous reactions**

Not determined.

### **Hazardous Polymerisation**

Will not polymerise.

## **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalis.

## **10.5. Incompatible materials**

### **Materials To Avoid**

Strong oxidising substances.

## **10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Toxicological information**

No information available.

#### **Other Health Effects**

This substance has no evidence of carcinogenic properties.

#### **Inhalation**

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

#### **Skin contact**

Irritating to skin. Prolonged or repeated exposure may cause severe irritation. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

#### **Eye contact**

Irritating to eyes.

#### **Route of entry**

Inhalation. Skin and/or eye contact.

#### **Toxicological information on ingredients.**

##### **Toxic Dose 1 - LD 50**

222 mg/kg (ivn-mouse)

##### **Toxic Conc. - LC 50**

103 ppm/4h (inh-rat)

#### **HEPTANE (CAS: 142-82-5)**

##### **Toxic Dose 1 - LD 50**

12705 mg/kg (oral rat)

##### **Toxic Dose 2 - LD 50**

813 mg/kg (oral-mouse)

#### **CYCLOHEXANE (CAS: 110-82-7)**

##### **Toxic Dose 1 - LD 50**

28700 mg/kg (oral rat)

##### **Toxic Conc. - LC 50**

48000 ppm/4h (inh-rat)

#### **HEXANE-norm (CAS: 110-54-3)**



ULTRASOLVE AEROSOL  
PROPAN-2-OL (CAS: 67-63-0)

Acute toxicity:

**Acute Toxicity (Oral LD50)**

5280 mg/kg Rat

**Acute Toxicity (Dermal LD50)**

12800 mg/kg Rabbit

**Acute Toxicity (Inhalation LC50)**

72.6 mg/l (vapours) Rat 4 hours

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

**Toxic Dose 1 - LD 50**

5200 mg/kg (oral rat)

**Toxic Dose 2 - LD 50**

11700 mg/kg (oral-mouse)

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Dangerous for the environment if discharged into watercourses.

**12.1. Toxicity**

Ecological information on ingredients.

HEPTANE (CAS: 142-82-5)

LC 50, 96 Hrs, Fish mg/l

4.924

CYCLOHEXANE (CAS: 110-82-7)

LC 50, 96 Hrs, Fish mg/l

42.3

PROPAN-2-OL (CAS: 67-63-0)

**Acute Toxicity - Fish**

LC50 96 hours 9640 mg/l Pimephales promelas (Fat-head Minnow)

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 13299 mg/l Daphnia magna

**Acute Toxicity - Aquatic Plants**

EC50 72 hours > 1.000 mg/l Scenedesmus subspicatus

**Acute Toxicity - Microorganisms**

EC50 > 1.000 mg/l Activated sludge

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

LC 50, 96 Hrs, Fish mg/l

20800

EC 50, 48 Hrs, Daphnia, mg/l

23300

**12.2. Persistence and degradability**

**Degradability**

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil**

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

**SECTION 13: DISPOSAL CONSIDERATIONS**

# ULTRASOLVE AEROSOL

## General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Empty containers must not be burned because of explosion hazard.

## SECTION 14: TRANSPORT INFORMATION

### General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1litre packed in cartons of less than 30kg gross to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed must show the following

### 14.1. UN number

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

### 14.2. UN proper shipping name

Proper Shipping Name                      AEROSOLS (CYCLOHEXANE)

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	2.1
ADR/RID/ADN Class	Class 2: Gases
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1

### Transport Labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



### 14.6. Special precautions for user

EMS	F-D, S-U
Tunnel Restriction Code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

**SECTION 15: REGULATORY INFORMATION**

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

**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

**Guidance Notes**

Workplace Exposure Limits EH40.

**EU Legislation**

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

**Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

<b>Issued By</b>	Helen O'Reilly
<b>Revision Date</b>	APRIL 2013
<b>Revision</b>	6
<b>SDS No.</b>	10617

**Risk Phrases In Full**

R10	Flammable.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R62	Possible risk of impaired fertility.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard Statements In Full**

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

# ULTRASOLVE AEROSOL

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SAFETY DATA SHEET ULTRASOLVE

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name ULTRASOLVE  
Product No. ULS-b, EULS01L, EULS05L, EULS25L, ZE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning Product  
Uses advised against At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

#### 1.3. Details of the supplier of the safety data sheet

Supplier ELECTROLUBE. A division of HK  
WENTWORTH LTD  
ASHBY PARK, COALFIELD WAY,  
ASHBY DE LA ZOUCH, LEICESTERSHIRE  
LE65 1JR  
UNITED KINGDOM  
+44 (0)1530 419600  
+44 (0)1530 416640  
info@hkw.co.uk

#### 1.4. Emergency telephone number

+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H336; Asp. Tox. 1 - H304
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

##### Classification (1999/45/EEC)

Xn; R65. Xi; R36/38. F; R11. N; R50/53. R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

##### Environment

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

##### Physical and Chemical Hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers.

#### 2.2. Label elements

Contains CYCLOHEXANE

Label In Accordance With (EC) No. 1272/2008



# ULTRASOLVE

Signal Word	Danger	
Hazard Statements	H225 H304 H315 H319 H336 H410	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P210  P305+351+338  P313	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Supplementary Precautionary Statements	P273 P280  P261 P301+310  P331	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapour/spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

## 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>CYCLOHEXANE</b>	<b>30-60%</b>
CAS-No.: 110-82-7	EC No.: 203-806-2
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) F;R11 Xn;R65 Xi;R38 R67 N;R50/53
<b>PROPAN-2-OL</b>	<b>10-30%</b>
CAS-No.: 67-63-0	EC No.: 200-661-7
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R67
<b>1-METHOXY-2-PROPANOL</b>	<b>10-30%</b>
CAS-No.: 107-98-2	EC No.: 203-539-1
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC) R10 R67



Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Solvent vapours may form explosive mixtures with air.

#### Specific hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

#### Storage Class

Flammable liquid storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters



# ULTRASOLVE

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm	375 mg/m <sup>3</sup>	150 ppm	560 mg/m <sup>3</sup>	Sk
CYCLOHEXANE	WEL	100 ppm	350 mg/m <sup>3</sup>	300 ppm	1050 mg/m <sup>3</sup>	
HEPTANE	WEL	500 ppm				
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.  
Sk = Can be absorbed through skin.

### PROPAN-2-OL (CAS: 67-63-0)

#### **DNEL**

Industry	Dermal	888	mg/kg/day
Industry	Inhalation.	500	mg/m <sup>3</sup>
Consumer	Dermal	319	mg/kg/day
Consumer	Inhalation.	89	mg/m <sup>3</sup>
Consumer	Oral	26	mg/kg/day

#### **PNEC**

Freshwater	140.9	mg/l
Marinewater	140.9	mg/l
Sediment	552	mg/kg
Soil	28	mg/kg

## **8.2. Exposure controls**

### **Protective equipment**



### **Process conditions**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

### **Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### **Respiratory equipment**

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2. EN14387

### **Hand protection**

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. Gloves should conform to EN374

### **Eye protection**

Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166

### **Other Protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### **Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid Clear
<b>Colour</b>	Colourless.
<b>Odour</b>	Organic solvents.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range (°C)</b>	>80 (176 F)
<b>Relative density</b>	0.78 @ 20 °c (68 F)
<b>Flash point (°C)</b>	-20 (-4 F) CC (Closed cup).

# ULTRASOLVE

Auto Ignition Temperature (°C)	>200 (392 F)
Flammability Limit - Lower(%)	0.7
Flammability Limit - Upper(%)	8.3

## 9.2. Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reacts violently with strong oxidising substances.

### 10.2. Chemical stability

Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Not available.

#### **Hazardous Polymerisation**

Will not polymerise.

### 10.4. Conditions to avoid

Avoid heat. Avoid contact with oxidisers or reducing agents.

### 10.5. Incompatible materials

#### **Materials To Avoid**

Strong oxidising substances.

### 10.6. Hazardous decomposition products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **Inhalation**

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Irritating to skin. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

#### **Eye contact**

Irritating to eyes.

#### **Route of entry**

Inhalation. Skin absorption.

#### Toxicological information on ingredients.

##### **Toxic Dose 1 - LD 50**

222 mg/kg (ivn-mouse)

##### **Toxic Conc. - LC 50**

103 ppm/4h (inh-rat)

#### HEPTANE (CAS: 142-82-5)

##### **Toxic Dose 1 - LD 50**

12705 mg/kg (oral rat)

##### **Toxic Dose 2 - LD 50**

813 mg/kg (oral-mouse)

#### CYCLOHEXANE (CAS: 110-82-7)

## ULTRASOLVE

HEXANE-norm (CAS: 110-54-3)

**Toxic Dose 1 - LD 50**  
28700 mg/kg (oral rat)  
**Toxic Conc. - LC 50**  
48000 ppm/4h (inh-rat)

PROPAN-2-OL (CAS: 67-63-0)

Acute toxicity:

**Acute Toxicity (Oral LD50)**  
5280 mg/kg Rat

**Acute Toxicity (Dermal LD50)**  
12800 mg/kg Rabbit

**Acute Toxicity (Inhalation LC50)**  
72.6 mg/l (vapours) Rat 4 hours

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

**Toxic Dose 1 - LD 50**  
5200 mg/kg (oral rat)  
**Toxic Dose 2 - LD 50**  
11700 mg/kg (oral-mouse)

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Dangerous for the environment if discharged into watercourses.

### 12.1. Toxicity

Ecological information on ingredients.

HEPTANE (CAS: 142-82-5)

**LC 50, 96 Hrs, Fish mg/l**  
4.924

CYCLOHEXANE (CAS: 110-82-7)

**LC 50, 96 Hrs, Fish mg/l**  
42.3

PROPAN-2-OL (CAS: 67-63-0)

**Acute Toxicity - Fish**  
LC50 96 hours 9640 mg/l Pimephales promelas (Fat-head Minnow)  
**Acute Toxicity - Aquatic Invertebrates**  
EC50 48 hours 13299 mg/l Daphnia magna  
**Acute Toxicity - Aquatic Plants**  
EC50 72 hours > 1.000 mg/l Scenedesmus subspicatus  
**Acute Toxicity - Microorganisms**  
EC50 > 1.000 mg/l Activated sludge

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

**LC 50, 96 Hrs, Fish mg/l**  
20800  
**EC 50, 48 Hrs, Daphnia, mg/l**  
23300

### 12.2. Persistence and degradability

#### Degradability

The product is biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

#### Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

No information required.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

UN No. (ADR/RID/ADN)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

**14.2. UN proper shipping name**

Proper Shipping Name                      FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, 1-METHOXY-2-PROPANOL)

**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



**14.4. Packing group**

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant



**14.6. Special precautions for user**

EMS    F-E, S-E

# ULTRASOLVE

Emergency Action Code •3YE  
Hazard No. (ADR) 33  
Tunnel Restriction Code (D/E)

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

## SECTION 15: REGULATORY INFORMATION

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

#### Guidance Notes

Workplace Exposure Limits EH40.

#### EU Legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

#### Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

#### Water hazard classification

WGK 1

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Issued By Helen O'Reilly

Revision Date APRIL 2013

Revision 6

SDS No. 10620

#### Risk Phrases In Full

R10 Flammable.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R65 Harmful: may cause lung damage if swallowed.  
R11 Highly flammable  
R36/38 Irritating to eyes and skin.  
R36 Irritating to eyes.  
R38 Irritating to skin.  
R62 Possible risk of impaired fertility.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## ULTRASOLVE

### Hazard Statements In Full

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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