Quest Consumables

SAFETY DATA SHEET

DE-ICER CONCENTRATE (-20°C)

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

1.1. Product identifier

Product name	DE-ICER CONCENTRATE (-20°C)
Product No.	865470

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

Identified uses	Automotive glass de-icer.
Uses advised against	This product is not recommended for any industrial, professional or consumer use other than the identified uses stated above.

1.3. Details of the supplier of the safety data sheet

Supplier

Quest Consumables Limited
Stock House
Seymour Road
Nuneaton
Warwickshire
CV11 4LB
T: +44 (0)24 76 322126
F: +44 (0)24 76 322117
info@questconsumables.com

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) R10, R67.

Human health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Environment

The product is not expected to be hazardous to the environment.

Physical and Chemical Hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

2.2. Label elements

Contains PROPAN-2-OL

Risk Phrases

R10	Flammable.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S2	Keep out of the reach of children.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

ETHANEDIOL		5-10%
CAS-No.: 107-21-1	EC No.: 203-473-3	
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22	

ETHANOL		5-10%
CAS-No.: 64-17-5	EC No.: 200-578-6	
Classification (EC 1272/2008) Flam. Liq. 2 - H225	Classification (67/548/EEC) F;R11	

METHANOL		< 1%
CAS-No.: 67-56-1	EC No.: 200-659-6	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25	

PROPAN-2-OL		10-30%
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	

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

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

General first aid, rest, warmth and fresh air.

Do not give victim anything to drink if they are unconscious.

Get medical attention if any discomfort continues.

Inhalation

Place unconscious person on the side in the recovery position and ensure breathing can take place.

If respiratory problems, artificial respiration/oxygen.

Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact

Immediately remove contaminated clothing.

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing.

Promptly wash eyes with plenty of water while lifting the eye lids.

Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

This is unlikely to occur but symptoms similar to those of ingestion may develop. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion

Ingestion may result in unconsciousness, blindness and death.

Skin contact

Skin irritation.

Eye contact

May cause blurred vision and serious eye damage.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use:

Alcohol resistant foam.

Carbon dioxide (CO2).

Dry chemicals, sand, dolomite etc.

DO NOT use water if avoidable.

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

Fire causes formation of toxic gases.

Specific hazards

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

Avoid breathing fire vapours.

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

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Keep combustibles away from spilled material.
Clean-up personnel should use respiratory and/or liquid contact protection.
Absorb in vermiculite, dry sand or earth and place into containers.
Wash thoroughly after dealing with a spillage.
Flush area clean with lots of water. Be aware of potential for surfaces to become slippery.

6.4. Reference to other sections

For personal protection, see section 8. 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

Keep away from heat, sparks and open flame.
Do not use contact lenses.
Avoid spilling, skin and eye contact.
Eye wash facilities and emergency shower must be available when handling this product.
During application and drying, solvent vapours will be emitted.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place.
Store under well-ventilated conditions at a temperature below 25°C.
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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANEDIOL	WEL		10 mg/m3		104 mg/m3	Sk
ETHANOL	WEL	1000 ppm	1920 mg/m3			
METHANOL	WEL	200 ppm	266 mg/m3	250 ppm	333 mg/m3	Sk
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

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

METHANOL (CAS: 67-56-1)

DNEL				
Industry	Dermal	Short Term	Systemic Effects	40 mg/kg/day
Industry	Dermal	Long Term	Systemic Effects	40 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	260 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	260 mg/m3
Consumer	Oral	Short Term	Systemic Effects	8 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	8 mg/kg/day
Consumer	Dermal	Short Term	Systemic Effects	8 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	8 mg/kg/day
Consumer	Inhalation.	Short Term	Systemic Effects	50 mg/m3
PNEC				
Freshwater	154	mg/l		
Marinewater	15.4	mg/l		
Soil	23.5	mg/kg		
STP	100	mg/l		

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

DNEL				
Industry	Inhalation.	Long Term	Systemic Effects	500 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	319 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	26 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	89 mg/m3
PNEC				
Freshwater	140.9	mg/l		
Marinewater	140.9	mg/l		
Intermittent release	140.9	mg/l		
Sediment (Freshwater)	552	mg/kg		
Sediment (Marinewater	552	mg/kg		
STP	2251	mg/l		
Soil	28	mg/kg		

ETHANEDIOL (CAS: 107-21-1)

DNEL				
Industry	Dermal	Long Term	Systemic Effects	106 mg/kg/day
Industry	Inhalation.	Long Term	Local Effects	35 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	53 mg/kg/day
Consumer	Inhalation.	Long Term	Local Effects	7 mg/m3
PNEC				
Freshwater	10	mg/l		
Marinewater	1	mg/l		
Sediment (Freshwater)	20.9	mg/kg		
Intermittent release	10	mg/l		
Soil	1.53	mg/kg		
STP	199.5	mg/l		

8.2. Exposure controls

Protective equipment

Process conditions

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 or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

Hand protection

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

In case of intensive contact, wear protective gloves (EN 374). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. protective gloves shall be replaced immediately when physically damaged or worn.

Appropriate Material - Butyl, Material Thickness - 0.6 to 0.8mm, Breakthrough Time - 8Hrs

Eye protection

Contact lenses should not be worn when working with this chemical!

Wear approved safety goggles.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level.

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

Provide eyewash station and safety shower.

Hygiene measures

Wash promptly if skin becomes contaminated.

Promptly remove non-impervious clothing that becomes contaminated.

When using do not eat, drink or smoke.

Skin protection

Use appropriate skin cream to prevent drying of skin.

Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Blue.
Odour	Slight odour of alcohol.
Solubility	Completely soluble in water Very soluble in: Alcohol
Initial boiling point and boiling range (°C)	~88°C 760 mm Hg
Melting point (°C)	Below minus 20°C
Relative density	0.977 @ 20°C
Vapour density (air=1)	
Not available.	
Vapour pressure	
Not available.	
pH-Value, Conc. Solution	10
Viscosity	
Not available.	
Decomposition temperature (°C)	
Not applicable.	
Odour Threshold, Lower	
Not applicable.	
Odour Threshold, Upper	
Not applicable.	
Flash point (°C)	30°C CC (Closed cup).
Auto Ignition Temperature (°C)	
Not available.	
Flammability Limit - Lower(%)	
Not available.	
Flammability Limit - Upper(%)	
Not available.	
Partition Coefficient (N-Octanol/Water)	
Not available.	
Oxidising properties	
Does not meet the criteria for oxidising.	
Comments	Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken.

9.2. Other information

Volatile Organic Compound (VOC) 327 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

No particular stability concerns.
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not applicable.
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials To Avoid
Strong acids.
Strong alkalis.
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
The product is not expected to be toxic to aquatic organisms.

Inhalation
In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion
Gastrointestinal symptoms, including upset stomach.

Skin contact
Repeated exposure may cause skin dryness or cracking.

Eye contact
Irritating and may cause redness and pain.

Health Warnings
Not expected to be a health hazard when used under normal conditions.

Route of entry
Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Target Organs
Central nervous system Eyes Gastro-intestinal tract Kidneys Liver Respiratory system, lungs Blood

Medical Symptoms

Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Visual disturbances, incl. blurred vision.

Toxicological information on ingredients.

ETHANOL (CAS: 64-17-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

6200 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 20000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

124.7 mg/l (vapours) Rat 4 hours

Skin Corrosion/Irritation:

Slightly irritating. Rabbit

Serious eye damage/irritation:

Slightly Irritating. Rabbit

Aspiration hazard:

Ingestion

After absorption: euphoria. After a latency period: dizziness, inebriation, paralysis, cyanosis, narcosis, respiratory paralysis.

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

Acute toxicity:

Acute Toxicity (Oral LD50)

~ 5840 mg/kg Rat

Acute Toxicity (Dermal LD50)

~ 16.4 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 10000 ppmV (gas) Rat 4 hours

Skin Corrosion/Irritation:

Not irritating.

Aspiration hazard:

Inhalation

Drowsiness, dizziness, disorientation, vertigo.

Ingestion

No specific health warnings noted.

Skin contact

No specific health warnings noted.

Eye contact

Irritating to eyes.

Health Warnings

Small amounts of liquid aspirated into the respiritory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

ETHANEDIOL (CAS: 107-21-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

7712 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 3500 mg/kg Mouse

Acute Toxicity (Inhalation LC50)

> 2.5 mg/l (vapours) Rat

Skin Corrosion/Irritation:

Not irritating. Rabbit

Serious eye damage/irritation:

Not Irritating. Rabbit

Respiratory or skin sensitisation:

Respiratory sensitisation

Guinea Pig

Not sensitising.

Skin sensitisation

Guinea Pig

Not Sensitising.

Aspiration hazard:

Inhalation

At room temperature, exposure to vapor is minimal due to low volatility. With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.

Ingestion

Oral toxicity is expected to be moderate in humans due to ethylene glycol even though tests with animals show a lower degree of toxicity. Ingestion of quantities (approximately 65 mL (2 oz.) for diethylene glycol or 100 mL (3 oz.) for ethylene glycol) has caused death in humans. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. For Ethylene glycol: Lethal Dose, Human, adult 100 ml LD50, rat, male and female 7, 712 mg/kg.

Skin contact

Prolonged skin contact is unlikely to result in absorption of harmful amounts. Repeated skin exposure to large quantities may result in absorption of harmful amounts. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.

Eye contact

May cause temporary eye irritation. Spray and vapour in the eyes may cause irritation and smarting.

Route of entry

Ingestion.

Kidneys Liver

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Acute Fish Toxicity

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Acute Toxicity - Fish
LC50 96 hours 15300 mg/l Pimephales promelas (Fat-head Minnow)
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours 9268 - 14221 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
LOEC 192 hours 5000 mg/l Scenedesmus subspicatus
Acute Toxicity - Microorganisms
LOEC 6500 (16hr) mg/l

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 > 1000 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
EC50 72 hours > 1000 mg/l Scenedesmus subspicatus
Acute Toxicity - Microorganisms
EC50 > 1000 mg/l Activated sludge

ETHANEDIOL (CAS: 107-21-1)

Acute Toxicity - Fish
LC50 96 hours 72860 mg/l Pimephales promelas (Fat-head Minnow)
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours > 100 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
EC50 96 hours 6500 - 13000 mg/l Selenastrum capricornutum
Acute Toxicity - Microorganisms
EC20 30 min > 1995 mg/l Activated sludge

12.2. Persistence and degradability

Degradability
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Degradability
The product is biodegradable.

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

Degradability
The product is expected to be biodegradable.
Biodegradation
Degradation (95%%) 21 days

ETHANEDIOL (CAS: 107-21-1)

Degradability
The product is biodegradable.
Biodegradation
Degradation (90 - 100%%) 10 days
Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% biodegradation in OECD test(s) for inherent biodegradability).

12.3. Bioaccumulative potential

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

Partition coefficient
Not available.

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Partition coefficient
log Pow < 2

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

Bioaccumulative potential
Will not bio-accumulate.
Partition coefficient
log Pow 0.05

ETHANEDIOL (CAS: 107-21-1)

Bioaccumulative potential
Not potentially bioaccumulative
Partition coefficient
log Pow -1.36

12.4. Mobility in soil

Mobility:
The product is soluble in water.

Ecological information on ingredients.

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

Mobility:
The product is soluble in water.
Adsorption/Desorption Coefficient
Soil Koc ~ 1.1
Henry's Law Constant
0.00000338 atm m3/mol 25°C

ETHANEDIOL (CAS: 107-21-1)

Mobility:
The product is soluble in water.
Volatilization from natural bodies of water or moist soil is not expected to be an important fate process.
Potential for mobility in soil is very high.
Adsorption/Desorption Coefficient
Soil Koc ~ 1
Henry's Law Constant
~ 8.05E-09 atm m3/mol 25°C

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

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

Not Classified as PBT/vPvB by current EU criteria.

ETHANEDIOL (CAS: 107-21-1)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
The packaging must be empty (drop-free, when inverted).

13.1. Waste treatment methods

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.
Make sure containers are empty before discarding (explosion risk).

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1987
UN No. (IMDG)	1987
UN No. (ICAO)	1987

14.2. UN proper shipping name

Proper Shipping Name	ALCOHOLS, N.O.S. (PROPAN-2-OL, ETHANOL)

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	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-E, S-D
Emergency Action Code	•3Y
Hazard No. (ADR)	30
Tunnel Restriction Code	(D/E)

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Environmental Listing

Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. 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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued By	HS&E Manager.
Revision	2
Safety Data Sheet Status	Approved.
Date	March 2013

Risk Phrases In Full

R10	Flammable.
R22	Harmful if swallowed.
R11	Highly flammable
R36	Irritating to eyes.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

H370	Causes damage to organs <<Organs>>.
H319	Causes serious eye irritation.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.