1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: R723
Company identification: see heading and/or footer
Emergency phone numbers: see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components/Impurities</td>
<td>Contains the following components: 40% w/w Dimethylether (F+;R12) {EINECS No. 204-065-8}/60% w/w Ammonia (R10</td>
</tr>
<tr>
<td>EC Nr (from EINECS)</td>
<td>Not applicable for preparations</td>
</tr>
</tbody>
</table>

3 HAZARDS IDENTIFICATION

Hazards identification: Liquefied gas
Extremely flammable
Toxic by inhalation.
Corrosive to eyes, respiratory system and skin.

4 FIRST AID MEASURES

Inhalation: Toxic by inhalation.
Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Delayed adverse effects possible.

Skin/eye contact: May cause chemical burns to skin and cornea (with temporary disturbance to vision)
Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical assistance.

Ingestion: Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards: Exposure to fire may cause containers to rupture/explose.
Hazardous combustion products: If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition:
Carbon monoxide
Nitric oxide/nitrogen dioxide

Suitable extinguishing media: All known extinguishants can be used.

Specific methods: If possible, stop flow of product.
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.
Move away from the container and cool with water from a protected position.
Special protective equipment for fire fighters: Use self-contained breathing apparatus and chemically protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:
- Evacuate area.
- Use self-contained breathing apparatus and chemically protective clothing.
- Ensure adequate air ventilation.
- Eliminate ignition sources.

Environmental precautions:
- Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
- Try to stop release.
- Reduce vapour with fog or fine water spray.

Clean up methods:
- Ventilate area.
- Hose down area with water.
- Wash contaminated equipment or sites of leaks with copious quantities of water.
- Keep area evacuated and free from ignition sources until any spilled liquid has evaporated.
  (Ground free from frost).

7 HANDLING AND STORAGE

Handling and storage:
- Ensure equipment is adequately earthed.
- Suck back of water into the container must be prevented.
- Purge air from system before introducing gas.
- Do not allow backfeed into the container.
- Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
- Keep away from ignition sources (including static discharges).
- Segregate from oxidant gases and other oxidants in store.
- Refer to supplier's container handling instructions.
- Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for country:
- UK: Ammonia - LTEL: 25ppm; STEL: 35ppm (EH40/2005)
- UK: Dimethylether - LTEL: 400ppm; STEL: 500ppm (EH40/2005)

Personal protection:
- Protect eyes, face and skin from liquid splashes.
- Keep suitable chemically resistant protective clothing readily available for emergency use.
- Keep self contained breathing apparatus readily available for emergency use.
- Do not smoke while handling product.
- Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight: 22.772
Boiling point: -32 °C
Safe Data Sheet

Product : R723
MSDS Nr : 344-25-2001BOC(A)

Date : 17/03/2008

Relative density, gas 0.8 (air=1)
Relative density, liquid 0.6 (water=1)
Vapour Pressure 20°C 7.9 bar
Solubility mg/l water No reliable data available.
Appearance/Colour Colourless gas
Odour Ammoniacal
Other data May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity May react violently with oxidants.
Can form explosive mixture with air.
May react violently with acids.
Reacts with water to form corrosive alkalis.

11 TOXICOLOGICAL INFORMATION

General Ammonia - May cause inflammation of the respiratory system and skin./Inhalation of large amounts leads to bronchospasm, laryngeal oedema and pseudomembrane formation.
Dimethylether - In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

LC50/1h (ppm)
Ammonia - 4000

12 ECOLOGICAL INFORMATION

General Ammonia - Toxic to water organisms.
May cause pH changes in aqueous ecological systems.

13 DISPOSAL CONSIDERATIONS

General Avoid discharge to atmosphere.
Do not discharge into any place where its accumulation could be dangerous.
Do not discharge into areas where there is a risk of forming an explosive mixture with air.
Waste gas should be flared through a suitable burner with flash back arrestor.
Toxic and corrosive gases formed during combustion should be scrubbed before discharge to atmosphere.
Gas may be scrubbed in alkaline hypochlorite solution under controlled conditions to avoid violent reaction.
Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

Proper shipping name LIQUEFIED GAS, TOXIC, FLAMMABLE, CORROSIVE, N.O.S. (Ammonia, Dimethylether)
UN Nr 3309
Class 2
ADR/RID Classification code: 2TFC
ADR/RID Hazard Nr: 263
Packing group: None
Labelling ADR: Label 2.3: toxic substance.
                      Label 2.1: flammable gas
                      Label 8: corrosive substance.
IMDG EmS codes: F-D, S-U
IMDG Marine pollutant: No
IATA passenger packing instruction: Forbidden
IATA passenger max. quantity/pack: Forbidden
IATA cargo packing instruction: Forbidden
IATA cargo max. quantity/pack: Forbidden
Other transport information: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and:
- cylinder valve is closed and not leaking
- valve outlet cap nut or plug (where provided) is correctly fitted
- valve protection device (where provided) is correctly fitted
- there is adequate ventilation.
- compliance with applicable regulations.

15 REGULATORY INFORMATION
Number in Annex I of Dir 67/548: Not applicable for preparations
EC Classification:
- Symbols: F+: Extremely flammable
                      T: Toxic
                      C: Corrosive
Labelling of cylinders:
- Symbols: Label 2.3: toxic substance.
                      Label 2.1: flammable gas
                      Label 8: corrosive substance.
- Risk phrases: R12 Extremely flammable.
                      R23 Toxic by inhalation.
                      R34 Cause burns (to eyes, respiratory system and skin).
- Safety phrases: S9 Keep container in well ventilated place.
                      S16 Keep away from ignition sources - No smoking.
                      S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
                      S33 Take precautionary measures against static discharges.
                      S36 Wear suitable protective clothing.
S37/39  Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the
label where possible).

16 OTHER INFORMATION

Ensure all national/local regulations are observed.
Ensure operators understand the flammability hazard.
Ensure operators understand the toxicity hazard.
Users of breathing apparatus must be trained.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

End of document.

Number of pages :5