SAFETY DATA SHEET
PROPAN-2-OL LRG

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME
PROPAN-2-OL LRG

PRODUCT NO.
1213

APPLICATION
General chemical reagent

SUPPLIER
Reagent Chemical Services
18 Aston Fields Road
Whitehouse Industrial Estate
Runcorn
Cheshire WA7 3DL
T: 01928 716903
F: 01928 716425
E: info@reagent.co.uk

2 HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

CLASSIFICATION
-

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.
603-117-00-0

EC No.
200-661-7

CAS-No.
67-63-0

4 FIRST-AID MEASURES

INHALATION
Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION
Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT
Immediately remove contaminated clothing and wash before re-use. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT
Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Water spray, dry powder or vaporising liquids

UNUSUAL FIRE & EXPLOSION HAZARDS
HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. Forms explosive mixtures with air.

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

6 ACCIDENTAL RELEASE MEASURES

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

SPILL CLEAN UP METHODS
Remove sources of ignition. Absorb in vermiculite, dry sand or earth and place into containers. Ventilate well. Wash contaminated area with water.
7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Avoid spilling, skin and eye contact. Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition.

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

STORAGE CLASS
Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>TWA - 8 hrs</th>
<th>STEL - 15 min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL LRG</td>
<td>OES</td>
<td>400 ppm</td>
<td>999 mg/m3</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

ENGINEERING MEASURES
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

EYE PROTECTION
Wear approved safety goggles.

OTHER PROTECTION
Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station.

HYGIENE MEASURES
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Liquid</td>
</tr>
<tr>
<td>COLOUR</td>
<td>Colourless</td>
</tr>
<tr>
<td>ODOR</td>
<td>Characteristic</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Miscible with water.</td>
</tr>
<tr>
<td>BOILING POINT (°C)</td>
<td>82</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.78 20</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>12</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - LOWER(%)</td>
<td>2.3</td>
</tr>
<tr>
<td>MELTING POINT (°C)</td>
<td>- 89</td>
</tr>
<tr>
<td>VAPOUR DENSITY (air=1)</td>
<td>2.07</td>
</tr>
<tr>
<td>AUTO IGNITION TEMPERATURE (°C)</td>
<td>425</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - UPPER(%)</td>
<td>12</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition. May form explosive peroxides.

MATERIALS TO AVOID

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50
5045 mg/kg (oral rat)

INHALATION
Irritating to respiratory system. Vapours may cause drowsiness and dizziness.
INGESTION
May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT
Irritating to skin. Product has a defatting effect on skin.

EYE CONTACT
May cause severe irritation to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

LC 50, 96 Hrs, FISH mg/l (Pimephales promelas) 11130

BIOACCUMULATION
Low bioaccumulation potential.

DEGRADABILITY
Good biodegradability

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

UK ROAD CLASS 3
PROPER SHIPPING NAME ISOPROPANOL (ISOPROPYL ALCOHOL)
UN NO. ROAD 1219 UK ROAD PACK GR. II
ADR CLASS NO. 3 ADR CLASS Class 3: Flammable liquids.
ADR PACK GROUP II ADR LABEL NO. 3
HAZCHEM CODE 2YE CEFIC TEC(R) NO. 30GF1-I+II
RID CLASS NO. 3 RID PACK GROUP II
UN NO. SEA 1219 IMDG CLASS 3
IMDG PAGE NO. 3 IMDG PACK GR. II
EMS F-E, S-D MFAG See Guide
MARINE POLLUTANT No. UN NO. AIR 1219
AIR CLASS 3 AIR PACK GR. II

15 REGULATORY INFORMATION

LABELLING

Irritant Highly Flammable

RISK PHRASES
R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES
S2 Keep out of the reach of children
PROPAN-2-OL LRG

S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S24/25 Avoid contact with skin and eyes.

UK REGULATORY REFERENCES

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE
Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals.
Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES
Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS
Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

REVISION COMMENTS
General rewrite

REV. NO./REPL. SDS GENERATED Supersedes issue October 2002

REVISION DATE May 2004

SDS NO. 20479