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ReAgent

SAFETY DATA SHEET PROPAN-2-OL TECH

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	PROPAN-2-OL TECH
PRODUCT NO.	2601
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
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION F;R11 Xi;R36 R67

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

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

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

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 if any discomfort continues.

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.

PROPAN-2-OL TECH

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

Isolate all ignition sources. Avoid heat, flames, sparks and static discharge. **NO SMOKING.** Small Spillages Absorb with inert, non-combustible material. Large Spillages Dam and absorb spillages with sand, earth or other inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Keep containers away from sources of ignition. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well. Any extraction systems used to ventilate the area must be flameproof. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
PROPAN-2-OL TECH	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

WEL = Workplace Exposure Limit.

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

Wear suitable respiratory protection if vapours or mists are generated. Chemical respirator with organic vapour cartridge. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

HAND PROTECTION

Use protective gloves. Butyl rubber. Viton rubber (fluor rubber). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and if handling large amounts, a safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

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

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Characteristic		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	82	MELTING POINT (°C)	- 89
RELATIVE DENSITY	0.78 20	VAPOUR DENSITY (air=1)	2.07
VAPOUR PRESSURE	33 mm Hg 20	FLASH POINT (°C)	12
AUTO IGNITION TEMPERATURE (°C)	425	FLAMMABILITY LIMIT - LOWER(%)	2.3

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FLAMMABILITY LIMIT - UPPER(%) 12

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

Aluminium. Strong oxidising substances. Organic nitro compounds.

11 TOXICOLOGICAL INFORMATION

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

TOXICOLOGICAL INFORMATION

Evidence of reproductive effects.

INHALATION

Irritating to respiratory system. Vapours may cause drowsiness and dizziness.

INGESTION

May cause nausea, headache, dizziness and intoxication. Large amounts may cause respiratory paralysis and coma.

SKIN CONTACT

Irritating to skin. Product has a defatting effect on skin. May cause secondary inflammation.

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

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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
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

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

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

This is first issue.

REVISION DATE 14/08/2009

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SDS NO. 20823

SAFETY DATA SHEET STATUS

Approved.