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# ReAgent

## RUBBING ALCOHOL MSDS

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	RUBBING ALCOHOL
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: <a href="mailto:info@reagent.co.uk">info@reagent.co.uk</a>
PRODUCT NO.	2640
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

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

CLASSIFICATION (1999/45) Xi;R36. F;R11. R67.

#### ENVIRONMENT

Due to the flammability of the product there is a high potential to cause fire especially if discharged near to ignition sources. This can lead to widespread fire and environmental damage.

#### PHYSICAL AND CHEMICAL HAZARDS

Heating will generate vapours which in the correct concentration will form explosive mixtures with air.

#### HUMAN HEALTH

See section 11 for additional information on health hazards.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
PROPAN-2-OL	200-661-7	67-63-0	60-100%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

#### COMPOSITION COMMENTS

The major ingredient, propan-2-ol, is present in sufficient concentration to classify the solution as highly flammable. Avoid sources of ignition.

### 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. Always consider any dangers in the vicinity before approaching to treat the casualty. Isolate all sources of ignition when treating casualties - DO NOT SMOKE. 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. Never give anything by mouth to an unconscious person. 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 immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Flush skin thoroughly with water. In serious cases or if discomfort continues obtain medical attention.

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## 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.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Water spray, dry powder or alcohol resistant foam.

### SPECIAL FIRE FIGHTING PROCEDURES

Prevent run-off from entering drains and watercourses.

### 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.

### SPECIFIC HAZARDS

Fire produces irritating vapours or fumes.

### 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.

### ENVIRONMENTAL PRECAUTIONS

Clean up any spillages immediately, prevent material from spreading and entering drains or sewage systems. Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be **IMMEDIATELY** alerted to the Environmental Agency or other appropriate regulatory body. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately.

### SPILL CLEAN UP METHODS

Remove sources of ignition. Small Spillages: Absorb with inert, non-combustible material. Large Spillages: Dam and absorb spillages with sand, earth or other 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. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate area and allow to dry before allowing access. **CAUTION** - Ensure enclosed spaces are allowed to vent sufficiently before using any type of ignition source. Any extraction systems used to ventilate the area must be flameproof.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Eliminate all sources of ignition. Avoid inhalation of vapours/spray and contact with skin and eyes. Static electricity and formation of sparks must be prevented.

### 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. Avoid sources of ignition.

### STORAGE CLASS

Flammable liquid storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure workplace exposure limits are not exceeded. Explosion-proof general and local exhaust ventilation. Work in flameproof fume cupboard when vapours or mists are generated.

### 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. Nitrile. 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.

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## OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and 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	Colourless liquid		
ODOUR	Characteristic		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	Approx. 82	RELATIVE DENSITY	0.8 - 0.9 20
VAPOUR DENSITY (air=1)	2.07	VAPOUR PRESSURE	33 (Propan-2-ol) mm Hg 20
FLASH POINT (°C)	Approx. 17	AUTO IGNITION	425
		TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	2.3 (Propan-2-ol)	FLAMMABILITY LIMIT - UPPER(%)	12 (Propan-2-ol)

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### HAZARDOUS POLYMERISATION

Will not polymerise.

### MATERIALS TO AVOID

Organic nitro compounds. Oxidising agents. The possibility of reaction with other materials cannot be excluded.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire may create Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11 TOXICOLOGICAL INFORMATION

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

### INHALATION

Irritating to respiratory system.

### INGESTION

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

### SKIN CONTACT

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

### EYE CONTACT

Irritating 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. Low acute toxicity to aquatic organisms.

### MOBILITY

The product is miscible with water and mobile in water systems. It will spread in the aquatic environment and travel through groundwater.

### BIOACCUMULATION

Low bioaccumulation potential.

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Any waste material is classed as hazardous waste, it should only be disposed of through licenced waste handlers and treatment sites. Do not allow unauthorised disposal to the environment. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Provide sufficient ventilation and appropriate extraction during disposal to avoid the WEL being exceeded. If disposal is taking place in a confined space and vapours are exceeding the WEL wear suitable respiratory protection or stop the disposal process. Allow the vapours to disperse.

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## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Avoid unauthorised disposal. Do not dump illegally onto land or into water.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	3		
PROPER SHIPPING NAME	ISOPROPANOL (ISOPROPYL ALCOHOL) (70% SOLUTION)		
UN NO. ROAD	1219	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	HAZARD No. (ADR)	33
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 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

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

## EU DIRECTIVES

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.

## STATUTORY INSTRUMENTS

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

## 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**

## GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

## RUBBING ALCOHOL

### REVISION COMMENTS

General rewrite

REVISION DATE 26/01/2010

REV. NO./REPL. SDS GENERATED 2

SDS NO. 11539

### SAFETY DATA SHEET STATUS

Approved.

### RISK PHRASES IN FULL

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.