

**SAFETY DATA SHEET**  
**ALKALINE TITRATION SOLVENT**

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

PRODUCT NAME ALKALINE TITRATION SOLVENT  
PRODUCT NO. 2278  
APPLICATION General chemical reagent  
SUPPLIER Reagent Chemical Services  
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**2 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
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

**3 HAZARDS IDENTIFICATION**

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

CLASSIFICATION Xi;R36. F;R11. R67.

**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 (200-300 ml). Get medical attention immediately!

**SKIN CONTACT**

Immediately remove contaminated clothing. Wash the skin immediately with soap and water. In serious cases obtain medical attention.

**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. Continue to rinse for at least 15 minutes. 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.

**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.

## ALKALINE TITRATION SOLVENT

### 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

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PROPAN-2-OL	OES	400 ppm	999 mg/m3	500 ppm	1250 mg/m3

#### ENGINEERING MEASURES

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

#### RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

#### HAND PROTECTION

Use protective gloves. Butyl rubber. Viton rubber (fluor rubber). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL).

#### 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

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Characteristic		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	About 82	RELATIVE DENSITY	About 0.8
FLASH POINT (°C)	12 (Propan-2-ol)	AUTO IGNITION TEMPERATURE (°C)	425 (Propan-2-ol)
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. May form explosive peroxides.

#### MATERIALS TO AVOID

Alkali metals. Alkali earth metals. Aluminium. Strong oxidising substances. Organic nitro compounds.

### 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 5045 (Propan-2-ol) 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.

## ALKALINE TITRATION SOLVENT

### 12 ECOLOGICAL INFORMATION

#### ECOTOXICITY

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

### 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) SOLUTION		
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	CEVIC 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
ICAO 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.

#### 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.

REVISION DATE: July 2004

## ALKALINE TITRATION SOLVENT

### GUIDANCE NOTES

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

### NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 1999

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## 16 OTHER INFORMATION

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### REVISION COMMENTS

This is first issue.

REVISION DATE July 2004

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10894

### RISK PHRASES IN FULL

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.