

REVISION DATE: 4th April 2008

ISOPROPANOL MSDS

Isopropanol

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

PRODUCT NAME	Isopropanol
SYNONYMS, TRADE NAMES	2-propanol, , IPA, , IPS, , Propan-2-ol, , Sec-Propyl Alcohol, , Isopropyl Alcohol, , Cafsol 2, , Everblend 15, , AL11,
SUPPLIER	Abbey Chemicals 27-30 North River Road Great Yarmouth Norfolk NR30 1SH Tel: +44 1493 850303 Fax: +44 1493 330909 www.abbey-chemicals.co.uk
SDS No.	I003
Emergency Contact Number (Office Hours)	+441493 850303
Emergency Contact Number (Outside Office Hours)	+441493 850303

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R36. F;R11. R67.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PROPAN-2-OL	200-661-7	67-63-0	50-100%	F;R11 Xi;R36 R67

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

EU INDEX NO.	603-117-00-0
EC No.	200-661-7
CAS-No.	67-63-0

4 FIRST-AID MEASURES

INHALATION

Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions. Perform artificial respiration if breathing has stopped.

INGESTION

Do not induce vomiting. Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Obtain medical attention and bring these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

REVISION DATE: 4th April 2008

Isopropanol

UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition.

SPECIFIC HAZARDS

Oxides of: Carbon.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be **IMMEDIATELY** alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Remove sources of ignition. Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Storage tanks and other containers must be grounded. Static electricity and formation of sparks must be prevented. Mechanical ventilation or local exhaust ventilation is required.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Keep containers tightly closed. Protect from freezing and direct sunlight. Store in a cool place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

Wear suitable respiratory protection.

HAND PROTECTION

Nitrile gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odour of alcohol		
SOLUBILITY	Soluble in water.		
MOL. WEIGHT	60	BOILING POINT (°C)	82 - 83
RELATIVE DENSITY	0.786 20	BULK DENSITY	785 kg/m ³

REVISION DATE: 4th April 2008

Isopropanol

VAPOUR DENSITY (air=1)	>1	VAPOUR PRESSURE	4.3 kPa 20
EVAPORATION RATE	1.2	VISCOSITY	2.65 cSt 25
FLASH POINT (°C)	12	AUTO IGNITION	>350
FLAMMABILITY LIMIT - LOWER(%)	2.0	TEMPERATURE (°C)	
		FLAMMABILITY LIMIT - UPPER(%)	12.7

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Aldehydes. Amines. Strong oxidising substances. Other halogenated organics.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of: Carbon.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 5840 mg/kg (oral rat)

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness. Central nervous system depression.

INGESTION

May cause nausea, headache, dizziness and intoxication. Narcotic effect.

SKIN CONTACT

Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritation of eyes and mucous membranes.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 9600 (Fathead Minnow)

EC 50, 48 Hrs, DAPHNIA, mg/l >10000

MOBILITY

The product is soluble in water.

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

The product is biodegradable.

ACUTE FISH TOXICITY

Not considered toxic to fish.

WATER HAZARD CLASSIFICATION

WGK 1

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

DISPOSAL METHODS

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

REVISION DATE: 4th April 2008

Isopropanol

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	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	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.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE 4th April 2008
 REV. NO./REPL. SDS GENERATED 10

REVISION DATE: 4th April 2008

Isopropanol

SDS NO. I003

SAFETY DATA SHEET STATUS

Approved.

DATE 16th November 2006

SIGNATURE Thomas Tailford

SIGNATURE 2 Nathan Harris

RISK PHRASES IN FULL

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.