

PROPAN-2-OL

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Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking	

1.1. Product identifier		
Product name:	PROPAN-2-OL	
CAS number:	67-63-0	
EINECS number:	200-661-7	
Index number:	603-117-00-0	
Synonyms:	ISOPROPANOL	
	ISOPROPYL ALCOHOL	
	IPA	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	
Use of substance / mixture:	Solvent.	
1.3. Details of the supplier of	the safety data sheet	
Company name:	Hexeal Chemicals Limited	
	21 Mackintosh Road	
	Rackheath Ind Est	
	Norwich	
	Norfolk	
	NR13 6LJ	
	United Kingdom	
Tel:	01603 604200	
Fax:	01603 604201	
Email:	info@hexchem.co.uk	
1.4. Emergency telephone nu	Imber	
Emergency tel:	01603 604200	
ection 2: Hazards identifica	tion	
2.1. Classification of the subs	stance or mixture	
Classification under CLP:	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	
Classification under CHIP:		
	Highly flammable liquid and vapour. Causes serious eye irritation. May cause	
	drowsiness or dizziness.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H225: Highly flammable liquid and vapour.	
	H319: Causes serious eye irritation.	

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Signal words: Danger Hazard pictograms: GHS02: Flame GHS07: Exclamation mark Precautionary statements: P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233: Keep container tightly closed. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/fumes/gas/mist/vapours/spray. P264: Wash thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P337+313: If eye irritation persists: Get medical advice/attention. P370+378: In case of fire: Use for extinction. P403+233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P501: Dispose of contents/container to.

2.3. Other hazards

### Section 3: Composition/information on ingredients

## 3.1. Substances

Chemical identity: PROPAN-2-OL

CAS number: 67-63-0

EINECS number: 200-661-7

#### Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Drench the affected skin with running

water for 10 minutes or longer if substance is still on skin.

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Eye contact:	Bathe the eye with running water for 15 minutes. Remove any contact lenses and open	
	eyes wide apart.	
Ingestion:	Do not induce vomiting. Wash out mouth with water. Consult a doctor.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If	
	conscious, ensure the casualty sits or lies down. Consult a doctor.	
4.2. Most important symptom	s and effects, both acute and delayed	
Skin contact:	There may be mild irritation at the site of contact.	
Eye contact:	There may be irritation and redness. There may be pain and redness.	
Ingestion:	Nausea and stomach pain may occur. There may be vomiting. The casualty may appear	
	intoxicated. High doses may cause CNS depression (fatigue, dizziness and possibly	
	loss of concentration, with collapse, coma and death in severe over-exposure).	
Inhalation:	There may be numbness or tingling in the limbs. Drowsiness or mental confusion may	
	occur. Nausea and stomach pain may occur. May cause irritation of the mucous	
	membranes and respiratory system. Exposure in high concentrations can cause a	
	breakdown in the central nervous system causing headache, dizziness, vertigo, nausea,	
	vomiting, confussion and srious cases, loss of concentration.	
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure. Delayed effects can be	
	expected after long-term exposure. Drowsiness or mental confusion may occur. The	
	casualty may appear intoxicated.	
4.3. Indication of any immedi	ate medical attention and special treatment needed	
Immediate / special treatment:	Show this safety data sheet to the doctor in attendance. First Aid may be required in case	
	of accidental exposure, inhalation or ingestionof this chemical. if in doubt, Get Medical	
	Attention Promptly!	
Section 5: Fire-fighting meas	sures	
5.1. Extinguishing media		1
Extinguishing media:	Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Suitable extinguishing	
	media for the surrounding fire should be used. Do not use high volume water jet.	
5.2. Special hazards arising f	rom the substance or mixture	
Exposure hazards:	Vapour may travel considerable distance to source of ignition and flash back. Forms	
	explosive air-vapour mixture. In combustion emits toxic fumes.	
5.3. Advice for fire-fighters		
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact	
-	with skin and eyes. Do not allow contaminated extinguishing water to enter the soil,	
	ground-water or suface waters.	
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# Section 6: Accidental release measures

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6.1. Personal precautions, pr	rotective equipment and emergency procedures
Personal precautions:	Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent
	access to unauthorised personnel. Do not attempt to take action without suitable
	protective clothing - see section 8 of SDS.
6.2. Environmental precaution	ins
Environmental precautions:	Do not discharge into drains or rivers. Inform the relevent authorities if the product has
	caused environmental pollution. (sewers, waterways, soil or air)
6.3 Methods and material fo	r containment and cleaning up
Clean-up procedures:	Absorb with inert, damp, non combustablematerial. Absorb into dry earth or sand. Do not
	contaminate water sources or sewer. Transfer to a closable, labelled salvage container
	for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of
	disposal.
6.4. Reference to other section	ons
Reference to other sections:	Refer to section 8 of SDS. Refer to section 13 of SDS.
ection 7: Handling and stor	rage
7.1. Precautions for safe han	dling
Handling requirements:	Ensure there is sufficient ventilation of the area. Do not handle in a confined space.
	Avoid the formation or spread of mists in the air. Earth any equipment used in handling.
	Smoking is forbidden. Use non-sparking tools. Avoid direct contact with the substance.
	Wear suitable protective clothing. keep away from heat and sources of ignition. Observe
	good industrial hygine practices.
7.2. Conditions for safe stora	age, including any incompatibilities
Storage conditions:	Store in cool, well ventilated area. Keep away from sources of ignition. Keep container
	tightly closed. Keep away from direct sunlight. Prevent the build up of electrostatic
	charge in the immediate area. Ensure lighting and electrical equipment are not a source
	of ignition. The floor of the storage room must be impermeable to prevent the escape of
	liquids. Store between 15°C and 28°C.
Suitable packaging:	Must only be kept in original packaging. Store material in closed containers.
7.3. Specific end use(s)	
Section 8: Exposure control	s/personal protection
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8.1. Control parameters	
Workplace exposure limits:	No data available.
DNEL/PNEC Values	

DNEL/PNEC Values

DNEL / PNEC No data available.

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8.2. Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical
	equipment are not a source of ignition. The floor of the storage room must be
	impermeable to prevent the escape of liquids. Ensure all engineering measures
	mentioned in section 7 of SDS are in place.
Respiratory protection:	wear suitable respiratory protection when aerosols or mist are present. If workplace
	exposure limits are exceeded, a respiration protection approved for this particular job
	must be worn. Gas/vapour filter, type A: organic vapours (EN141).
Hand protection:	Butyl gloves. Nitrile gloves. Sufficient protection is given wearing suitable protective
	gloves checked according to i.e EN 374, in the event of risk of skin contact with the
	product. Replace gloves immediately if damaged.
Eye protection:	Safety goggles.
Skin protection:	Choose body protection according to the amount and concentration of the dangerous
	substance at the work place.
Environmental:	The floor of the storage room must be impermeable to prevent the escape of liquids.
	Ensure all engineering measures mentioned in section 7 of SDS are in place. Prevent
	from entering in public sewers or the immediate environment.

# Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Ctoto	1 touted		
State:	Liquid		
Colour:	Colourless		
Odour:	Alcoholic		
Evaporation rate:	1.2		
Solubility in water:	Miscible		
Viscosity:	2.65 cSt 20c		
Boiling point/range°C:	82 Melting	point/range°C:	-89
Flammability limits %: lower:	2.0	upper:	12.7
Flash point°C:	12 Part.coeff. n	-octanol/water:	log Pow: 0.05
Autoflammability°C:	425 Va	apour pressure:	33mm Hg 20
Relative density:	0.786 20	pH:	7
0.2 Other information			

9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions. Reaction with acid chlorides, chlorine and phosphorus chlorides forms toxic chloroacetones. Water loss occurs over alumina sulphuric acid to form diisopropyl ether and propylene which are both flammable.

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#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Will

not polymerise.

#### 10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Heat. Sources of ignition. Flames. Hot surfaces.

#### 10.5. Incompatible materials

Materials to avoid: Acids. Halogenated compounds. Oxidising agents. Acid anhydrides. Aluminium.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### **Toxicity values:**

Route	Species	Test	Value	Units
IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

#### Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	-	Based on test data

#### Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness. There may be pain and redness.

- Ingestion: Nausea and stomach pain may occur. There may be vomiting. The casualty may appear intoxicated. High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in severe over-exposure).
- Inhalation: There may be numbness or tingling in the limbs. Drowsiness or mental confusion may occur. Nausea and stomach pain may occur. May cause irritation of the mucous membranes and respiratory system. Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confussion and srious cases, loss of concentration.
- Delayed / immediate effects: Immediate effects can be expected after short-term exposure. Delayed effects can be

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expected after long-term exposure. Drowsiness or mental confusion may occur. The

casualty may appear intoxicated.

Other information: Not applicable.

#### Section 12: Ecological information

#### 12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	9640	mg/l
DAPHNIA	24H EC50	1800	mg/l

#### 12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: No data available.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

Other adverse effects: No data available.

### Section 13: Disposal considerations

13.1. Waste treatment methods

 Disposal operations:
 Transfer to a suitable container and arrange for collection by specialised disposal company.

 Disposal of packaging:
 Arrange for collection by specialised disposal company.

 NB:
 The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

# Section 14: Transport information

14.1. UN number

UN number: UN1219

#### 14.2. UN proper shipping name

Shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

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14.3. Transport hazard class	(es)
Transport class:	3
14.4. Packing group	
Packing group:	I
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for	
Tunnel code:	
Transport category:	
ection 15: Regulatory infor	nation
15.1. Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
Specific regulations:	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I
	2009 No. 716). Control of Substances Hazardous to Health. Regulation (EC) No
	1907/2006 of the European Parliment and of the Council of 18 December 2006
	concerningthe Regulation, 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/ECC and Commission Directives
	91/155/EEC, 93/67/EEC, 93/105/EC & 2000/21/EC, including ammendments.
	Regulation(EC) No 1272/2008 of the European Parliment and of the Council of 16
	December 2008 on classification, Labelling and packaging of substances and mixtures,
	amending and repealing Directives 67/548/ECC and 1999/45/EC and amending -
	Regulation(EC) No 1907/2006 with amendments.
15.2. Chemical Safety Assess	sment
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture
	by the supplier.
ection 16: Other informatio	n
Other information	
Other information:	Please provide adequate information, instructions and training for operations.
Phrases used in s.2 and s.3:	H225: Highly flammable liquid and vapour.
	H319: Causes serious eye irritation.
	H336: May cause drowsiness or dizziness.
	R11: Highly flammable.
	R36: Irritating to eyes.
	R67: Vapours may cause drowsiness and dizziness.

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DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration IC50 = median inhibitory concentration dw = dry weight bw = body weight cc = closed cup oc = open cup MUS = mouse GPG = guinea pig RBT = rabbit HAM = hamster HMN = human MAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.