

SAFETY DATA SHEET

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Revision Date: 07/06/2000

REF.: CP0620 RS 101-5766

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

Product name: ISOCLENE
Product code: ISO250/1L
Supplier: AUTOMATION FACILITIES
H.K. Wentworth Ltd.,
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation	General purpose solvent				
Chemical Name	CAS-No.	EC-No.	Class	Weight %	
~PROPAN-2-OL	67-63-0	200-661-7	F; R11 Xi; R36 R67	100.00	

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable. Irritating to eyes.
Specific hazards Irritant effect on eyes. Prolonged skin contact may defat the skin and produce dermatitis. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

4. FIRST AID MEASURES

General advice: Use only in well-ventilated areas.
Inhalation: Move to fresh air. Consult a physician after significant exposure.
Skin contact: Wash off with soap and plenty of water.
Eye contact: Flush eye(s) immediately with plenty of water. If eye irritation persists, consult a specialist.
Ingestion: Immediately give large quantities of water to drink. Consult a physician if necessary

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguish with carbon dioxide, dry chemical, foam or waterspray
Extinguishing media which must not be used for safety reasons: Do not use water jet
Specific hazards: Cool containers / tanks with spray water.
Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.
Specific methods: none

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition.. Wear suitable gloves and eye/face protection.

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Environmental precautions:	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke.
Storage:	Keep in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:	National occupational exposure limits:
~PROPAN-2-OL	HSC(EH40)
	Long term (8 hrs) = 400ppm / 999mgm ⁻³
	Short term (15 min) = 500ppm / 1250mgm ⁻³

Engineering measures:	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment:	
- Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:	solvent-resistant gloves.
- Eye protection:	goggles / safety glasses
- Skin and body protection:	not required under normal use
Hygiene measures:	When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	colourless
Odour:	characteristic
pH:	no data available
Boiling point/range:	82 °C
Melting point/range:	-89 °C
Decomposition temperature:	no data available °C
Flash point:	12 °C
Autoignition temperature:	425 °C
Flammability (solid, gas):	Highly flammable.
Explosion limits:	- lower 2.3 vol. %
	- upper 12 vol. %
Vapour pressure:	(20 °C) 44 hPa
Relative density:	(20 °C) >= 0.78
Bulk density:	785 kg/m3
Solubility:	
Water solubility	completely miscible g/l)
- fat solubility	no data available
Partition coefficient (n-octanol/water)	<3 log P _{ow}
Viscosity:	(20 °C) 2.43 mPa.s

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Caustic alkali liquids, n.o.s., oxidising agents, aldehydes, ammonia.
Materials to avoid:	strong acids and oxidising agents
Hazardous decomposition products:	None

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50/oral/rat = 5.05g/kg
Local effects:	May cause skin irritation in susceptible persons.
Sensitisation:	Not applicable
Long term toxicity:	Liver injury may occur.
Chronic toxicity:	Effects of excessive exposures may include liver toxicity

12. ECOLOGICAL INFORMATION

Mobility:	Readily soluble in water
Persistence and degradability:	Propan-2-ol: Readily biodegradable, according to appropriate OECD test. (>99.9%)
Bioaccumulation:	None
Ecotoxicity effects:	LC50/96h/fathead minnows = 9600mg/l

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Dispose of as special waste in compliance with the Control of Pollution (Special Waste) Regulations 1980..
Contaminated packaging:	Store containers and offer for recycling of material according to the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORT INFORMATION

UN-No:	1219	Marine pollutant:	Not applicable
ADR/RID			
Class:	3	Item:	3 (b)
		HI/UN No:	1219
Proper shipping name:	Isopropanol		
IMO			
Class:	3.2	IMDG Page:	3244
EmS:	3-06	MFAG:	305
Proper shipping name:	Isopropanol		
ICAO			
Class:	3	UN/ID No.:	1219
Proper shipping name	Isopropanol		

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 90/492/EEC.

- **Contains:** Isopropanol
- **Symbol(s):**



F - Highly flammable



Xi - Irritant

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R-phrases): R11 - Highly flammable. R36 - Irritating to eyes. R67 - Vapours may cause drowsiness and dizziness.

S-phrases): S 2 - Keep out of reach of children. S 7 - Keep container tightly closed. S16 - Keep away from sources of ignition - No smoking. S24/25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

Revision number: 3

Further information: CN No. 38140090
Contact Name: Carolyn Booth
Department: Technical

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