



SAFETY DATA SHEET

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

1.1 Product identifier

Product Name:	Ecosavr Pool Cover
Datasheet Number:	SP965 1. 0. 0
Product Part Number:	SP965
Chemical Name:	Isopropanol
Index Number:	603-117-00-0
CAS No.:	67-63-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier:	Total Pool Chemicals Ltd
Address of Supplier:	Unit 1, Pool Bank Business Park High Street, Tarvin Chester CH3 8JH UK
Telephone:	+44 (0)1829 740290
Fax:	+44 (0)1829 741855
Responsible Person:	Steve Carder
Email:	sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Flam. Liq. 2, H225
- Eye Irrit. 2, H319
- STOT SE 3, H336
- Classification (67/548/EEC, 1999/45/EC)
- F; R11
- Xi; R36
- R67
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- Signal Word: Danger
- Symbols: GHS02, GHS07



2 Hazards identification (....)

Hazard phrases

- Highly flammable liquid and vapour.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.

Precautionary Phrases

- Keep out of reach of children.
- Keep container tightly closed.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Do not get in eyes, on skin, or on clothing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
Isopropanol	90-95%	67-63-0	200-661-7	H225, H319, H336 R11, R36, R67	GHS02, GHS07 F, Xi	603-117-00-0

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is difficult, oxygen should be given by a trained person
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

- Severely irritating to eyes
- May cause dizziness, confusion, headache or stupor

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction



5 Fire-fighting measures (....)

- 5.2 Special hazards arising from the substance or mixture
- See Section 10.6
 - Decomposition products may include carbon oxides

- 5.3 Advice for firefighters
- Wear protective clothing as per section 8
 - Wear Breathing Apparatus

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing as per section 8
 - Ensure adequate ventilation. Avoid formation of dust. Keep ignition sources away - no smoking. Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental Precautions
- Avoid release to the environment.
 - Do not allow to enter public sewers and watercourses
 - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
 - Eliminate all ignition sources if safe to do so.
 - Stop leak if safe to do so.

- 6.3 Methods and material for containment and cleaning up
- Collect as much as possible in clean container for reuse or disposal
 - Absorb spillage in inert material and shovel up
 - Wash thoroughly after dealing with spillage
 - Seek expert advice for removal and disposal of all contaminated materials and wastes

- 6.4 Reference to other sections
- See Section 7 & 8

7 Handling and storage

- 7.1 Precautions for safe handling
- Ensure adequate ventilation
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Do not eat, drink or smoke when using this product.
 - Wash thoroughly after handling.
 - Avoid contact with skin and eyes.

- 7.2 Conditions for safe storage, including any incompatibilities
- Store in a dry place. Store in a closed container.
 - Keep only in original container.
 - Store in a well-ventilated place. Keep cool.
 - Do not store above 40 °C
 - Protect from sunlight.

- 7.3 Specific end use(s)
- No information available.



8 Exposure controls/personal protection

8.1 Control parameters

Isopropanol

- WEL (long term) 400 ppm
- WEL (long term) 999 mg/m³
- WEL (short term) 500 ppm
- WEL (short term) 1250 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Strong smell of alcohol
- Appearance: Liquid, blue, green
- pH - not known
- Boiling point 80.5 °C
- Vapour pressure 34 mm /Hg
- Vapour density (air = 1) 1.84
- Melting point -120.5 °C
- Completely soluble in water
- Specific gravity 0.785 g/cm³
- Flash point 10-12 deg C (CC)
- Auto-ignition point >400 deg C
- Lower explosive limit 2 % (in air)
- Upper explosive limit 13 % (in air)
- Log Pow 0.05
- Evaporation rate - not known

9.2 Other information

- No information available

10 Stability and reactivity

10.1 Reactivity

- No information available



10 Stability and reactivity (....)

10 .2 Chemical stability

- No information available

10 .3 Possibility of hazardous reactions

- Vapours may ignite

10 .4 Conditions to avoid

- Keep away from heat and sources of ignition
- Keep away from naked flames, incandescent or hot surfaces
- Keep away from static electricity

10 .5 Incompatible materials

- Incompatible with acid
- Incompatible with oxidizing substances

10 .6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides
- Decomposition products may include flammable gas

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral, rat) 4700-5500 mg/kg
- LD50 (skin, rabbit) >12800 mg/kg
- LC50 (inhalation, rat) 47-73 mg/l/4h

Inhalation

- Causes drowsiness

Contact with skin

- May cause irritation

Contact with eyes

- Causes irritation

Ingestion

- In cases of severe exposure, dizziness, confusion, headache or stupor may develop

Carcinogenicity

- No information available

Teratogenicity

- No information available

Mutagenicity

- No information available
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12 Ecological information

12 .1 Toxicity

- LC50 (Fathead minnow) 9600 mg/l (96hr)
- EC50 (daphnia) 4600 mg/l (48 hr)

12 .2 Persistence and degradability

- Biodegradable

12 .3 Bioaccumulation Potential

- Low bioaccumulation potential

12 .4 Mobility in soil

- No information available

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- No information available

13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Uncontaminated material may be returnable. Contact supplier

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information



Flammable Liquid

14.1 UN Number

1219

14.2 UN Proper Shipping Name

Isopropanol

14.3 Transport hazard class(es)

3

14.4 Packing group

II

14 .5 Environmental hazards

- Presents little or no hazard to the environment



14 Transport information (....)

14 .6 Special precautions for user

- See Section 7

14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	Isopropanol	ADR UN No.:	1219
ADR Hazard Class:	3	ADR Packing Group:	II
Tunnel Code:	D/E		

Sea (IMDG)

Proper Shipping Name:	Isopropanol	IMDG UN No.:	1219
IMDG Hazard Class.:	3	IMDG Pack Group.:	II

Air (ICAO/IATA)

Proper Shipping Name:	Isopropanol	ICAO Un No.:	1219
ICAO Hazard Class.:	3	ICAO Packing Group.:	II

15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15 .2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- 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.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.