

## Health & Safety Data Sheet – Ecosolve 100

### 1. Identification of the Substance/Preparation and Company

Product Name:- Ecosolve 100 (IPA / DI)

Supplier:- Surclean

Samuel White's Ind Estate, Cowes, IOW, PO31 7LP, UK

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### 2. Composition / Information on Ingredients

<u>Ingredient</u>	<u>%range</u>	<u>Sym/let</u>	<u>Risk phases</u>
Isopropanol	60%	IPA-remainder	Non hazardous (D.I. water)

### 3. Hazards Identification

#### HIGHLY FLAMMABLE SOLVENT

May be irritating to skin, eyes and respiratory system. Inhalation of vapour concentrations greater than the OEL may have narcotic effects. There is a degreasing action on skin which can increase the risk of dermatitis from other chemicals. May also be absorbed through skin. May cause damage if splashed in eyes. Considered of minimal toxicity.

### 4. First Aid Measures

Inhalation: Move casualty to fresh air and keep at rest.

Skin Contact: Wash off with soap and water. Skin conditioning cream should also be used to prevent any dryness.

Eye Contact: Immediately flush with water for 10 minutes.

Ingestion: Give plenty of water to drink. If large amounts have swallowed, seek medical advice.

Medical Notes: If any adverse systems persist seek immediate medical attention.

### 5. Fire-Fighting Measures

Suitable

Extinguishing Media: Foam, dry chemicals, CO<sub>2</sub>, water fog.

Do not use: Water in a jet.

Exposure hazards: Not Known

Protective Measures: Keep endangered containers cool with water spray. Fire Fighters should wear respiratory protection where large amounts are involved in a fire.

## 6. Accidental Release Measures.

Personal precautions: Refer to section 8; Personal Protection

Environmental precautions: Refer to section 13; Disposal

Methods of clearing up: Remove any source of ignition. Mop up with absorbent materials (eg sand, silica gel, acid binder, sawdust, etc) and transfer to suitable disposal container. Do not flush into surface water or sanitary sewer system.

## 7. Handling and Storage

Handling: Use only in well ventilated areas. Do not allow vapour concentration levels to exceed OEL. Avoid contact with skin and eyes. In accordance with good hygiene industrial practices, do not eat, drink or smoke when handling this material. Keep away from all sources of ignition. Take precautionary measure against static discharge.

Storage: Keep in a cool, well ventilated place. Keep containers tightly closed.

## 8. Exposure Controls / Personal Protection

Personal Protection: Normal good room ventilation should be sufficient. Gloves and eye protection are recommended for prolonged or repeated exposure.

## 9. Physical And Chemical Properties

Form:	Colourless liquid with characteristic odour		
Flash point °C:	12	Density:	0.78
Boiling point °C:	82	Melting point °C:	-89
Vapour Density:	2.07 (air=1)	Vapour pressure:	33mmHG @ 20°C
Viscosity:	N.D.	Solubility in water:	Miscible
Explosive limits:	12% (upper) 2.3% (lower)		
Autoignition temp°C:	425		

## 10. Stability and Reactivity

Stability: Stable. Vapour / air mixture may be explosive. May react vigorously with oxidizing materials.

Conditions To avoid: Oxidizers, chlorinated compounds, caustics, amines alkanolamines, aldehydes and ammonia.

Hazardous Decom-position products: None Known

## 11. Toxicological Information

Toxic effects arising from exposure based on experimental / non experimental data

LD50 (Oral rat) >2000 mg/kg                      LD50 (Dermal rabbit) 16.4 ml/kg

## 12. Ecological Information

### Possible environmental effects and behavior / ODP / aquatic toxicity

Product is completely miscible with water and is readily biodegradable

## 13. Disposal Considerations

Dispose of according to Local Regulations. See also section 7 & 8 for handling precautions and personal protection where applicable.

## 14. Transport Information

Product Trade Name:	IPA Cleaning Fluid	Contains:	N.A.
Proper Shipping Name:	Isopropanol	U.N. Number:	1219
I.A.T.A. Class:	3	Packing Group:	II
I.M.D.G. No.:	3244	I.M.D.G.Class:	3.2
A.D.R./ R.I.D. class:	33	A.D.R./R.I.D. No:	3°(b)
EmS Number:	3-06	M.F.A.G. Table:	305

## 15. Regulatory Information

Indication of Danger:	Highly Flammable	EEC No.:	200-746-9
Contains:	Isopropanol		
Risk Phases:	N.A.		
Safety Phrases:	Keep out of reach of children Keep containers tightly closed Do not breathe vapour / spray Keep away from all sources of ignition No Smoking Use only in well ventilated areas		

<u>Occupational Exposure Limits:</u>	<u>Long – Term</u>		<u>Short – Term</u>	
	<u>exposure limit</u> (8 hour TWA)		<u>exposure limit</u> (10 min period)	
<u>Substance</u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Isopropanol	400	999	500	1250

Ref: HSE Guidance notes EH40 /97

## 16. Other Information

Recommended uses  
And restrictions: Use only as directed

Publications refs: Compiled in accordance with CHIP 2 1994 & 1996,  
1997 Amendment Regulations.  
HSC Approved Codes Of Practice, documents L62 L63.

## 17. Section Revision and dates

Section:

Change: Version 1.0

Date: June 2003

Legend: N.A. = Not applicable or Not Available – Est = Estimated  
N.D. = Not Determined or Not Determinable