

Grove Sales Limited, Unit 3 Beaver Industrial Estate, 8 Airfield Road, Christchurch, Dorset, BH23 3TG

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Isopropanol  
 EC index no : 603-117-00-0  
 EC no : 200-661-7  
 CAS No : 67-63-0  
 REACH registration No : 01-2119457558-25

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

TR Bonnyman Son & Co  
 Willowburn Road  
 KA15 1LN Beith - United Kingdom  
 T +44 1505 504716  
[hugh@bonnymans.co.uk](mailto:hugh@bonnymans.co.uk) - [www.bonnymans.co.uk](http://www.bonnymans.co.uk)

#### 1.4. Emergency telephone number

Emergency number : 0844 892 0111

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 : H225  
 Eye Irrit. 2 : H319  
 STOT SE 3 : H336

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11  
 Xi; R36  
 R67

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour  
 H319 - Causes serious eye irritation  
 H336 - May cause drowsiness or dizziness

# Isopropanol

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting/... equipment P261 - Avoid breathing dust/fume/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+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - 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/doctor/.../if you feel unwell P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use ... to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to ...
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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	60 - 100	F; R11 Xi; R36 R67

  

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Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration.
First-aid measures after skin contact	: If irritation develops, obtain medical attention. Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Drink plenty of water. Get immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Sand. Water spray.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

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### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Evacuate area. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use protective clothing. Ensure adequate ventilation. Eliminate every possible source of ignition.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Shut off source of leak if it is safe to do so.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) and transfer to container. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Handle and use in accordance with good occupational hygiene and safety practice. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid breathing vapours. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store in original container.
- Incompatible products : Oxidizing agent.
- Incompatible materials : Sources of ignition.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Isopropanol (67-63-0)		
EU	IOELV TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup> (8 hours)
EU	IOELV TWA (ppm)	400 ppm (8 hours)
EU	IOELV STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup> (15 mins)
EU	IOELV STEL (ppm)	500 ppm (15 mins)

Isopropanol (67-63-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	888 mg/kg bodyweight/day
Acute - systemic effects, inhalation	500 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	319 mg/kg bodyweight
Acute - systemic effects, inhalation	89
Acute - systemic effects, oral	26 mg/kg bodyweight
PNEC (Water)	
PNEC aqua (freshwater)	140.9 mg/l
PNEC aqua (marine water)	140.9 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	552 mg/kg dwt

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### Isopropanol (67-63-0)

PNEC (Soil)

PNEC soil 28 mg/kg dwt

### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation.
Personal protective equipment	: Safety glasses. Gloves.
Hand protection	: Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals.
Eye protection	: Chemical goggles or safety glasses. Have an eye-bath to hand
Skin and body protection	: Wear suitable protective clothing. Safety shower at proximity
Respiratory protection	: Wear respiratory protection



## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: Odour of alcohol.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -88 °C
Freezing point	: No data available
Boiling point	: 82 °C
Flash point	: 12 °C
Self ignition temperature	: ≥ 399 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 4.16 kPa (at 20°C)
Relative vapour density at 20 °C	: 2.8
Relative density	: 0.7855 (at 20°C)
Solubility	: Miscible.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

Other properties	: Flammability Limit: min; 2%, max; 12%.
Refractive index	: 1.376 - 1.378

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

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### 10.5. Incompatible materials

Strong Oxidizing Agents.

### 10.6. Hazardous decomposition products

No decomposition if stored normally.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Isopropanol (67-63-0)	
LD50 oral rat	4700 mg/kg
LD50 oral	≥ 2000 mg/kg (rabbit)
LC50 inhalation rat (mg/l)	46.5 mg/l/4h

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Non-sensitising, (Guinea Pig, Buehler test)  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Isopropanol (67-63-0)	
LC50 fishes 1	≥ 100 mg/l (48 hours)
EC50 Daphnia 1	≥ 100 mg/l (48 hours)
LC50 other aquatic organisms 2	≥ 100 mg/l (Algae, 72 hours)

### 12.2. Persistence and degradability

Isopropanol (67-63-0)	
Persistence and degradability	Biodegradable.

### 12.3. Bioaccumulative potential

Isopropanol (67-63-0)	
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of waste and residues in accordance with local and national requirements. In accordance with local authority regulations, take to special waste incineration plant.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

### 14.1. UN number

UN-No. (ADR) : 1219  
UN-No. (IMDG) : 1219  
UN-No.(IATA) : 1219  
UN-No.(ADN) : Not applicable  
UN-No. (RID) : 1219

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## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 1219, 3, II, (D/E)
Transport document description (IMDG)	: UN 1219, 3, II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



#### IMDG

Transport hazard class(es) (IMDG)	: 3
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#### IATA

Transport hazard class(es) (IATA)	: 3
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#### ADN

Transport hazard class(es) (ADN)	: Not applicable
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#### RID

Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3



### 14.4. Packing group

Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR)	: F1
Special provision (ADR)	: 601
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 33

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## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Orange plates



Tunnel restriction code (ADR)

: D/E

EAC code

: •2YE

### 14.6.2. Transport by sea

### 14.6.3. Air transport

### 14.6.4. Inland waterway transport

Not subjected to ADN

: No

### 14.6.5. Rail transport

Carriage prohibited (RID)

: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Isopropanol is not on the REACH Candidate List

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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
F	Highly flammable
Xi	Irritant

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*