



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/6/2001 Revision date: 4/16/2019 Supersedes: 7/23/2018 Version: 2.1

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

Raw material

1.1. Product identifier

Product form : Substance

Substance name : Isopropanol (Propan-2-ol)

 IUPAC name
 : 2 propanol

 EC Index-No.
 : 603-117-00-0

 EC-No.
 : 200-661-7

 CAS-No.
 : 67-63-0

 Product code
 : 90005179

 Formula
 : C3H8O

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

1.2.1. Relevant identified uses

Main use category : Laboratory use, Industrial use, Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Scafell Organics

Lingfield Way

Product group

Yarm Road Business Park DL1 4XX Darlington - UK T +44 (0) 1949 823777

info@scafellorganics.com - www.scafellorganics.com

1.4. Emergency telephone number

Emergency number : +44 7590 545705

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2

Serious eye damage/eye irritation, Category 2

H225

H319

Specific target organ toxicity — Single exposure, Category 3, Narcosis

H336

Full text of H statements : 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)





GHS02

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P220 - Keep away from clothing and other combustible materials. P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - 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

No additional information available

Precautionary statements (CLP)

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SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
Isopropanol (Propan-2-ol)	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If possible show this sheet, if not available show packaging or label. Do not leave affected

person unattended. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water. Do not remove clothing if it sticks to the skin. If skin

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of

coordination.

Symptoms/effects after skin contact : irritation (itching, redness, blistering).

Symptoms/effects after eye contact : redness, itching, tears. Causes serious eye irritation. Risk of serious damage to eyes.

Symptoms/effects after ingestion : Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea,

vomiting

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Vapours may travel long distances along ground

before igniting/flashing back to vapour source.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. May form explosive peroxides.

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Keep container tightly closed and away from

heat, sparks and flame.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment. Evacuate area.

Keep upwind.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Use self-contained breathing apparatus and chemically protective clothing.

Other information : Warn all persons of toxic hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open

flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent

access to unauthorized personnel. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Do not touch or walk on the spilled product.

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Measures in case of dust release : Shelter from vapours by keeping upwind.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and

chemically protective clothing.

: Ventilate area. Prevent from entering sewers, basements and workpits, or any place where **Emergency procedures**

its accumulation can be dangerous. Stop leak if safe to do so.

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 Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

Methods for cleaning up

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. No open flames.

No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Do not breathe

vapours. Handle under inert gas.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the

workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep in fireproof place. Hygroscopic. Store contents under inert gas.

Incompatible products : Oxidising agents, Acid anhydrides, Aluminium, Acids, Halogenated compounds,

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Moisture. Water, humidity.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

: Store below 20 °C. Store in dry protected location to prevent any moisture contact. Storage area

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

5.1. Control parameters			
Isopropanol (Propa	sopropanol (Propan-2-ol) (67-63-0)		
United Kingdom Local name		Propan-2-ol	
United Kingdom	WEL TWA (mg/m³)	999 mg/m³	
United Kingdom WEL TWA (ppm) United Kingdom WEL STEL (mg/m³) United Kingdom WEL STEL (ppm)		400 ppm	
		1250 mg/m³	
		500 ppm	
United Kingdom	Regulatory reference	EH40. HSE	

sopropanol (Propan-2-ol) (67-63-0)	
140.9 mg/l	
140.9 mg/l	
140.9 mg/l	
552 mg/kg dwt	
552 mg/kg dwt	
28 mg/kg dwt	

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Isopropanol (Propan-2-ol) (67-63-0) PNEC (Oral)	
PNEC (STP)	
PNEC sewage treatment plant 2251 mg/l	
0.0 F	

8.2. Exposure controls

Appropriate engineering controls:

Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. Floors should be impervious, resistant to liquids and easy to clean. Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

Use chemically protective clothing. Wear fire/flame resistant/retardant clothing.

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Always wash hands after handling the product

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4mm minimum		EN 374

Eye protection:

Chemical goggles or safety glasses. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes.

Туре	Use	Characteristics	Standard
		tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing	EN 14605

Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	ABEK	Vapour protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear.Molecular mass: 60.1 g/molColour: Colourless.Odour: alcoholic.Odour threshold: No data available

Relative evaporation rate (butylacetate=1) : No data available

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: No data available

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: -89.5 °C Melting point : No data available Freezing point

Boiling point : 82 °C

: 12 °C closed cup. Flash point

: 425 °C Auto-ignition temperature

Decomposition temperature : No data available Flammability (solid, gas) : No data available : 43.2 hPa at 20.0 °C Vapour pressure Relative vapour density at 20 °C : No data available Relative density : 0.785 g/mL at 25 °C

Solubility : Miscible. Log Pow $\cdot 0.05$

Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : No data available. : No data available. Oxidising properties Lower explosive limit (LEL) : 2 vol %

Upper explosive limit (UEL) 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Stable under normal conditions of use

10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Sparks. Protect from moisture.

10.5. Incompatible materials

Acids. Halogenated compounds. Oxidising agents. Aluminium. Acid anhydrides.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon oxides (CO. CO2).

: 12.7 vol %

SECTION 11: Toxicological information

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11 1 Ir	nformation	n on	toxico	Modical	offo	cts

: Not classified Acute toxicity (oral) Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified

sopropanol (Propan-2-ol) (67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat (ppm)	10000 ppm 6h
LC50 inhalation rat (Vapours - mg/l/4h)	37.5 mg/l/4h

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

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STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Isopropanol (Propan-2-ol) (67-63-0)		
LC50 fish 1		9640 mg/l Pimephales promelas (fathead minnow) - 96h
	FC50 Daphnia 1	13299 mg/l Daphnia magna (Water flea) - 48h

12.2. Persistence and degradability

Isopropanol (Propan-2-ol) (67-63-0)

Persistence and degradability No data available

12.3. Bioaccumulative potential

Isopropanol (Propan-2-ol) (67-63-0)

130proparior (1 ropari-2-01) (01-03-0)	
Log Pow	0.05
Bioaccumulative potential	No data available.

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

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

: Handle empty containers with care because residual vapours are flammable. Additional information

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

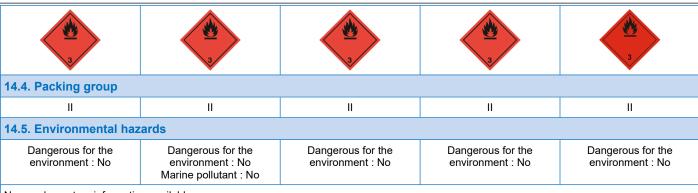
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
1219	1219	1219	1219	1219	
14.2. UN proper shipping name					
ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	Isopropanol	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	
Transport document description					
UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) (Isopropanol (Propan-2-ol)), 3, II, (D/E)	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) (Isopropanol (Propan-2-ol)), 3, II (12°C c.c.)	UN 1219 Isopropanol (Isopropanol (Propan-2-ol)), 3, II	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) (Isopropanol (Propan-2-ol)), 3, II	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) (Isopropanol (Propan-2-ol)), 3, II	
14.3. Transport hazard class(es)					
3	3	3	3	3	

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No supplementary information available

14.6. Special precautions for user

Overland transport

: F1 Classification code (ADR) Special provisions (ADR) : 601 Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : LGBF Vehicle for tank carriage : FL Transport category (ADR) : 2 Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates

33 1219

: TP1

Tunnel restriction code (ADR) : D/E EAC code : •2YE

Transport by sea

Limited quantities (IMDG) · 11 Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1 : F-E EmS-No. (Fire) EmS-No. (Spillage) : S-D Stowage category (IMDG) : B Flash point (IMDG) : 12°C c.c.

Properties and observations (IMDG) : Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with

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water

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A180 ERG code (IATA) : 3L

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Inland waterway transport

Classification code (ADN) : F1 Special provisions (ADN) : 601 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1 Special provisions (RID) : 601 Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19 Portable tank and bulk container instructions (RID) : T4 Portable tank and bulk container special provisions : TP1

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 2 Colis express (express parcels) (RID) : CE7 Hazard identification number (RID) : 33

14.7. Transport in bulk according to Annex II of Marpol 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

No REACH Annex XVII restrictions

Isopropanol (Propan-2-ol) is not on the REACH Candidate List Isopropanol (Propan-2-ol) is not on the REACH Annex XIV List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

AwSV; ID No. 135)

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting . The substance is not listed giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

: The substance is not listed

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Ontwikkeling

Denmark

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids

must be followed

: Young people below the age of 18 years are not allowed to use the product **Danish National Regulations**

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

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SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:		
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.	

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.

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