

Safety Data Sheet

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

Product Name: Isopropyl Alcohol
Product Code: SPB3025

Group T

Application of the mixture: Surface cleaning and sterilising solution.

CAS No: 67-63-0

Company Name and Address:

Bellitas Ltd,
Unit 12 Prospect Drive,
Britannia Enterprise Park,
Lichfield,
Staffs.
WS14 9UX

Emergency Telephone No: +44 (0) 1543 416611

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC 1272/2008
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

The full text for all Risk Phrases and Hazard Statements are displayed in section 16

2.2 Label Elements



GHS02: Flammable



GHS05: Corrosive



GHS07: Harmful

Signal word: DANGER

Hazard Statements:

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

Precautionary Statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible – continue rinsing.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable – product is a mixture

3.2 Mixtures/Ingredients

Isopropyl Alcohol, Aqua (Water).

Name/Form.	CAS / EC No.	Concentration	Classification
1424	67-63-0 200-661-7	<70%w/w	H228 H322 H336 May cause drowsiness or dizziness
Main Active(s)	Isopropyl Alcohol Propan-2 ol (Isopropanol) Reach Reg. No.		

The full text for all R-Phrases and Hazard Statements are displayed in section 16

Safety Data Sheet

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	Breathe fresh air, if dizziness or shortness of breath persists seek medical advice.
Skin Contact	Remove any clothing soiled by the product. Wash contaminated skin with soap and water.
Eye Contact	Rinse opened eye for 15 minutes under running water, if irritation persists seek medical advice.
Accidental Ingestion	Do not induce vomiting. Rinse mouth thoroughly and seek medical attention if discomfort persists.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Symptoms unlikely from small amounts, but inhalation of large amounts may cause headaches, dizziness, unconsciousness.
Skin Contact	Prolonged skin contact may cause drying of the skin.
Eye Contact	If liquid gets into the eyes it may cause redness, stinging, watering of the eye.
Ingestion	Ingestion of the liquid may cause irritation to the throat and mouth, and symptoms similar to inhalation.

4.3 Indication of any immediate and any special treatment needed

Immediate / special treatment	Symptomatic treatment as required
--------------------------------------	-----------------------------------

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use:	Extinguish with sand, earth, water spray or powder extinguisher
Avoid:	High pressure water jet as this may spread the fire

5.2 Special Hazards arising from the substance or mixture

Unusual fire and explosion hazards
The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures
Formation of toxic gases is possible during heating or in the case of a fire: Carbon monoxide (CO).

5.3 Advice for firefighters

Protective equipment for firefighters
Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away
Fire water run off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water

Additional information

Cool endangered receptacles with water spray

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate to dispel any residual vapour.
Wear protective equipment. Keep unprotected personal away.
Keep away from ignition sources.
Use respiratory protection device against the effects of the fumes.

6.2 Environmental precautions

Avoid spreading of the material. Contain spillages with sand, earth or suitable inert absorbent material. Prevent further spillages.
Do not allow to penetrate the ground/soil, enter drains or water courses. Cover drains. In the case of contamination of water courses or sewers advise the Environmental Agency, fire brigade and police.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid binding material, vermiculite, sand, earth or suitable inert absorbent material.
Rinse site with copious amounts of water, which should not be allowed into drains, sewers or watercourses
Ensure adequate ventilation

6.4 Reference to other sections

See section 7 for information on safe handling
See section 8 for information on protective equipment
See section 13 for disposal information

Safety Data Sheet

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Eye wash facilities and emergency shower must be available when handling this product. Avoid spilling, contact with the eyes and prolonged contact with the skin. Do not breathe the vapour or fumes. Use suitable protective clothing (see section 8). Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in its original, tightly closed, labelled container in a cool, well ventilated area, away from heat, sparks and any other sources of ignition. Keep out of reach of children and animals. Not suitable for storage in aluminium containers.

Incompatibilities

Store away from oxidising agents.

Store away from alkalis (caustic solution).

Store away from acids.

7.3 Specific end use(s)

No special precautions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Name	Std	TWA 8 hour exposure limit	STEL 15 minute exposure limit	Source/Type
2-Propanol	WEL	400ppm	999mg/m ³ 500ppm	1250mg/m ³ EH40 2011

DNELS

	Worker	Consumer
Human oral	Systemic effects none stated	Systemic effects 26mg/kg
Human dermal	888mg/kg/day	319mg/kg
Human inhalation	500mg/m ³	89mg/m ³
Human inhalation		

PNECS

PNEC Aqua (Freshwater)	140.9mg/l
PNEC Aqua (Marine)	140.9mg/l
PNEC Sediment	552mg/kg
PNEC Soil	28mg/kg

8.2 Exposure controls

Engineering measures	Provide eyewash station. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory protection	If ventilation is insufficient suitable respiratory equipment must be provided.
Hand protection	For prolonged contact with the product, suitable protective gloves conforming to EN374 should be worn. Seek recommendations from manufacturer or supplier.
Eye protection	Contact lenses should not be worn when working with this chemical. Wear approved safety goggles.
Skin protection	Minimise all forms of skin contact. Wash promptly if skin becomes contaminated. Wear suitable protective clothing. Promptly remove non-impervious clothing that becomes contaminated. Launder overalls and under garments regularly. When using do not eat, drink or smoke.
Other protective & hygiene measures	Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Appearance	Mobile liquid.
Odour	Alcohol-like
Odour threshold	22ppm (propan-2-ol)
pH value	Approximately neutral
Solubility in water	Soluble or dispersible in water
Initial boiling point/boiling range °C	82-83°C (propan-2-ol)
Melting Point / range °C	-89°C (propan-2-ol)
Flash point °C	12°Ccc
Upper/lower flammability limits	Typically 2-12%
Vapour pressure at 20°C	43 hPA (propan-2-ol)
Vapour density at 20°C	2
Auto ignition temperature °C	>399 °C
Alcohol content	<70%w/w
Specific gravity	<1.00
Viscosity at 20°C	2.5mPas (propan-2-ol)

9.2 Other information

None

Safety Data Sheet

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

Not considered to be reactive

Stable under normal conditions and storage. See section 7

Explosive reactions with oxidising agents such as calcium carbonate and or peroxides. Reacts with strong oxidising agents. Reacts with strong acids.

High temperatures, flames and other sources of ignition.

Strong oxidising agents, strong acids, Al, amines, alkalis.

Toxic gases or vapours, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Acute toxicity	Not expected to present an acute toxicity hazard. LD50 (oral rat) >2,000mg/kg (propan-2-ol) LD50 (dermal rabbit) >2,000mg/kg (propan-2-ol)
Inhalation	In high concentrations vapours may cause headache, fatigue, dizziness and nausea
Skin contact	Prolonged and frequent exposure may cause skin dryness and cracking
Ingestion	Gastrointestinal symptoms, including upset stomach
Eye contact	Irritating to the eyes

Comments This product has been assessed as safe to use under normal conditions of use and according to instructions.

SECTION 12: Ecological information

This product has not been subjected to toxicological testing. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

This product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

12.1 Toxicity

Toxicity to fish	LC50, 48h, >100mg/l (Leuciscus idus)
Toxicity to invertebrates	EC50, 48h, >100mg/l (Daphnia magna)
Toxicity to algae	EC50, 72h, >100mg/l (Scenedesmus subspicatus)

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulation

There is no evidence of bio accumulative.

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No further relevant information available

SECTION 13: Disposal considerations

Do allow the product to reach the sewerage system or waterways.

Empty containers may contain residual product and flammable vapours. Keep away from sparks, heat and sources of ignition.

Product is hazardous waste. Disposal must be means of a licenced waste contractor.

Safety Data Sheet

SECTION 14: Transport information

14.1 UN number

UN No. (ADR/RID/IMDG/IATA)

UN1219

14.2 UN proper shipping name

Isopropyl alcohol

14.3 Transport hazard class(es)

ADR, IMDG, IATA

3 Flammable liquids
3 Label Class

14.4 Packing group

II (ADR/RID/AND/IMDG/ICAO,IATA)

14.5 Environmental hazards

Marine pollutant

No

14.6 Special precautions for user

Danger code (Kemlar)/hazard no. (ADR)

33

EMS no.

F-E, S-D

Stowage category

B

Tunnel restriction code

D/E

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not applicable

14.8 Additional information

Limited quantities (LQ)

1 Litre(s)

EC N°

200-661-7

SECTION 15: Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture

All components are listed as existing substances in Europe

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product. A chemical safety assessment has been carried out for the main component, propan-2-ol

SECTION 16: Other information

Classification of the mixture is in general based on calculation method using substance data, as required by (EC) 1272/2008

Abbreviations and acronyms used in the safety data sheet

CAS No	Chemical Abstracts Service number
DNEL	Derived No-Effect Level
EC	European Community
EEC	European Economic Community
EMS No	Emergency Response Procedure number
Eye Irrit.	Eye Irritant
Flam. Liq.	Flammable Liquid
hPa	1 hPa = 100 Pa (Pascal)
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
PBT	Persistent, Bio accumulative and Toxic
PNEC	Predicted No-Effect Concentration
Ppm	Parts Per Million
REACH	Registration, Evaluation, Authorisation and Restrictions of Chemicals
STOT	Specific Target Organ Toxicity
vPvB	Very Persistent and Very Bio accumulative
WEL	Workplace Exposure Limit

Hazardous and Precautionary Statements in full used in section 2 and 3

Hazard Statements:

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

Precautionary Statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible – continue rinsing.

Version 20: 1

Issue Date: 08/01/2021

WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. IT IS THE USERS OBLIGATION TO DETERMINE CONDITIONS OF SAFE USE OF THIS PRODUCT.