

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

1.1. Product identifier

Product form	: Substance
Trade name	: ISOPROPYLALCOHOL 100%
EC index no	: 603-117-00-0
EC no	: 200-661-7
CAS No	: 67-63-0
REACH registration No	: 01-2119457558-25
Type of product	: Pure substance
Synonyms	: IPA,ips,Sec propyl Alcohol, cafsol 2, Everblend 15, AL11, 2Propanol
Product group	: Raw material

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

1.2.1. Relevant identified uses

Main use category	: Reserved for industrial and professional use.
Function or use category	: Expedient, Aid

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Meesenburg Großhandel KG
Westerallee 162
D-24941 Flensburg
Tel.: +49 (0)461 5808-0
Fax: +49 (0)461 5808 1101
E-mail: stuttgart@meesenburg.de

1.4. Emergency telephone number

Emergency number : +49 (0)89-19240 (24 h) (German and English)

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 [DSD] or 1999/45/EC [DPD]

F; R11

Xi; R36

R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Narcotic in high concentrations.

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

Precautionary statements (CLP) : P210 - Keep away from open flames, hot surfaces, sparks, heat. - No smoking
P280 - Wear protective gloves, face protection, eye 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
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P403+P235 - Store in a well-ventilated place. Keep cool

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Mono-constituent
Name : ISOPROPYLALCOHOL 100%
CAS No : 67-63-0
EC no : 200-661-7
EC index no : 603-117-00-0

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ISOPROPYLALCOHOL 100% (Main constituent)	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-21 19457558-25	100	F; R11 Xi; R36 R67
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ISOPROPYLALCOHOL 100% (Main constituent)	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-21 19457558-25	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation : Take victim to fresh air, in a quiet place in an half laying position, do artificial respiration if necessary and urgently take medical advice.
First-aid measures after skin contact : Remove clothing before washing. Wash immediately with lots of water (15 minutes)/shower.
First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion : Immediately after ingestion: give lots of water to drink.

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

Symptoms/injuries : Dizziness. Narcosis.

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 : Alcohol-resistant foam. carbon dioxide (CO₂), dry chemical powder, hazy water.
Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible.
Reactivity in case of fire : On burning (carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.
Other information : Do not allow run-off from fire fighting to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep away from ignition sources.

6.1.1. For non-emergency personnel

Protective equipment : Equip cleanup crew with proper protection.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the solid spill. Take up liquid spill into a non combustible material e.g.: dry sand/earth/vermiculite kieselguhr, powdered limestone.

Methods for cleaning up : For minor spillages wash down with excess of water.

Other information : Plug the leak, cut off the supply.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : PREVENT GENERATION OF MISTS.

Precautions for safe handling : Avoid inhalation of vapour and spray mist. Finely divided: keep away from ignition sources/sparks.

Hygiene measures : Do not eat, drink and do not smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Keep away from acids, alkalies, heavy metal salts and reducing substances.

Storage area : Facilities: shower, eye shower. Provide for an automatic sprinkler system. Keep out of direct sunlight. Keep container in a well-ventilated place.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled.

Packaging materials : stainless steel. copper. bronze. polypropylene. polyethylene. PVC.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ISOPROPYLALCOHOL 100% (67-63-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	500 mg/m ³
Acute - local effects, inhalation	89 mg/m ³
Long-term - local effects, dermal	d 888 mg/kg bw/ dag
PNEC (Water)	
PNEC aqua (freshwater)	140.9 mg/l
PNEC aqua (marine water)	140.9 mg/l
PNEC (STP)	
PNEC sewage treatment plant	2251 mg/l

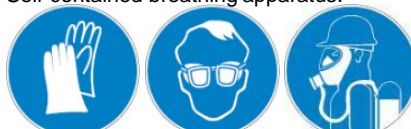
DNEL : 500 mg/m³

PNEC : 140.9 mg/l Freshwater

8.2. Exposure controls

Appropriate engineering controls : Do not eat, drink or smoke in areas where product is used.

Personal protective equipment : Gloves. Safety glasses. In case of insufficient ventilation, wear suitable respiratory equipment. Self-contained breathing apparatus.



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Hand protection : Wear suitable gloves.

Eye protection : Protective goggles.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : High gas/vapour concentration: gas mask with filter type A.
Consumer exposure controls : Keep out of reach of children.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : No data available
Odour : Alcohol odour.
Odour threshold : 30 ppm
pH : No data available
pH solution : neutral
Relative evaporation rate (butylacetate=1) : 1.5 - 2.9
Melting point : - 89 °C
Freezing point : -89 °C No data available
Boiling point : 82 83 °C
Flash point : 12 °C
Auto-ignition temperature : > 350 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 2.1
Relative density of saturated gas/air mixture : 1.05
Solubility : Water: completely soluble
Ethanol: Soluble
Ether: Soluble
Log Pow : 0.05
Viscosity, kinematic : No data available
Viscosity, dynamic : 2.5 Pa.s
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

Minimum ignition energy : 0.65 mJ
VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning (carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Remove any possible cause of fire. high temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity : Not classified

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
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

Ecology - general : Classification concerning the environment: not applicable.

ISOPROPYLALCOHOL 100% (67-63-0)	
LC50 fishes 1	9640 mg/l
EC50 Daphnia 1	1000 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ISOPROPYLALCOHOL 100% (67-63-0)	
Log Pow	0.05

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ISOPROPYLALCOHOL 100% (67-63-0)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

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

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

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

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

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IMDG

Transport hazard class(es) (IMDG) : 3

IATA

Transport hazard class(es) (IATA) : 3

ADN

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

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

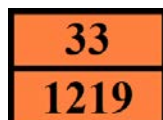
14.5. Environmental hazards

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 provisions (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
Orange plates :



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

14.6.2. Transport by sea

EmS-No. (1) : F-E, S-D

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN **SECTION 14:** No

14.6.5. Rail transport

Classification code (RID) : F1

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Carriage prohibited (RID) : No

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

Ship type : Type 3

Pollution category : Z

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

VOC content : 100 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

Precautionary statements (CLP).

Other information : Although this text realisation has kept all our attention, we cannot accept any liability whatsoever resulting of the use of this sheet.

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