



BUBBLBYE

COLORBERRY GmbH  
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Safety Data Sheet according to 1907/2006/EC, Article 31

Trade name: Isopropanol 99,9%

Revised on: 09.04.2018 Version: 5 Print date: 09.04.2018

## Section 1: Identification of the substance/mixture and of the company

### 1.1 Product identifier

Trade name: Isopropanol 99.9%

CAS No.: 67-63-0

Index No.: 603-117-00-0

EC No.: 200-661-7

REACH-Registration number: 01-2119457558-25-XXXX

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

No further relevant information available.

Application of the substance / the mixture:

Cleaning agent in industry and household, auxiliary agent for the removal of dirt and adhesive residues (e.g. in the automotive sector for cleaning the paint before polishing applications), and as solvent for greases, resins, lacquers and inks; as record cleaner.

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

Manufacturer/Supplier: COLORBERRY GmbH  
Wolfersberg 1  
85667 Oberpframmern  
Germany  
Phone: +49 151 1001 61 31  
Email: kontakt@colorberry.de

Emergency telephone number: +49 151 1001 61 31  
(this number is only manned during office hours.  
Mo-Fr: 8-14 o' clock)

Use: Dye  
Conditions of use: No further relevant information available



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## Section 2: Possible hazards

### 2.1 Classification of the substance or mixture:

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

Flam. Liq. 2	H225	Highly flammable liquid and vapor.
Eye Irrit. 2	H319	Causes severe eye irritation.
STOT SE 3	H336	May cause drowsiness and dizziness.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled in accordance with the CLP Regulation.

Hazard pictograms:



GHS02 GHS07

Signal word: Danger

Hazard-determining components of labeling: propan-2-ol

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes severe eye irritation.

H336 May cause drowsiness and dizziness.

Precautionary statements:

# P102 Keep out of the reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.

P243 Take precautionary measures against static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF IN CONTACT WITH SKIN (or hair): Remove all contaminated clothing immediately. Wash skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove existing contact lenses if possible. Continue to rinse.

P312 If you feel unwell, call a POISON CENTER/doctor.

P403+P233 Keep container tightly closed in a well-ventilated place.

# P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



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### 2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

## Section 3: Composition/Information on ingredients

### 3.1 Substance

Description: isopropanol

Hazardous ingredient:

CAS No.: 67-63-0	Propan-2-ol; Isopropyl	Flam. Liq. 2 H225;	> 99%
EC No.: 200-661-7			
Reg. No.: 01-2119457558- 25-XXXX	alcohol,		
Index No.: 603-117-00-0	Isopropanol, i-C <sub>3</sub> H <sub>7</sub> OH		

Additional hints:

For the wording of the listed hazard statements, see section 16.

## Section 4: First aid measures

### 4.1 Description of first aid measures

General advice:

Immediately remove clothing contaminated with product.

After inhalation:

Provide fresh air supply. Consult a doctor in case of complaints.

After skin contact:

Wash off immediately with soap and water and rinse thoroughly. Consult a doctor if

Irritation persists.

After eye contact:

Rinse opened eye immediately for several minutes under running water.

Rinse opened eye immediately under running water and consult a doctor.

After ingestion:

Rinse mouth with water and drink plenty of water. Do not induce vomiting, seek medical attention immediately.



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

No further relevant information available.

Advice to Physician:

Therapy as for acute ethanol poisoning. Risk of respiratory paralysis.

Monitor liver and kidney functions. Gastric lavage. In case of unconsciousness, do not flush without intubation.

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

No further relevant information available.

### **Section 5: Fire fighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Extinguishing media unsuitable for safety reasons:

Water in full jet

#### **5.2 Special hazards arising from the substance or mixtures**

Formation of explosive vapour/air mixtures possible. Carbon monoxide CO may be formed in case of incomplete combustion. Vapors are heavier than air and spread on the ground. Ignition over greater distance possible.

#### **5.3 Advice for firefighters**

Special protective equipment:

Wear full protective suit with self-contained breathing apparatus.

Further information:

Cool endangered containers in the vicinity with water spray.



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## Section 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Put on protective equipment and keep unprotected persons away. Extinguish naked flames. Remove sources of ignition. Do not smoke. Avoid sparks. Avoid contact with skin, eyes and clothing. Do not inhale vapors. Ventilate affected areas thoroughly. Take precautionary measures against electrostatic charge.

### 6.2 Environmental precautions

Do not allow to enter drains/surface waters/groundwater. Dilute with plenty of water. In case of spillage into water course or sewage system, contact competent authorities immediately.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust). Provide adequate ventilation. Dispose of contaminated material as waste in accordance with Section 13.

### 6.4 Reference to other sections

There is a risk of explosion  
See Section 7 for safe handling information.  
See Section 13 for disposal information.  
See Section 8 for information on personal protective equipment.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.  
Provide good ventilation/exhaustion at the workplace.  
Avoid prolonged or repeated contact with skin.  
Advice on protection against fire and explosion:  
Keep ignition sources away - do not smoke.  
Take measures against electrostatic charge.  
Vapors may form an explosive mixture with air.



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## 7.2 Conditions for safe storage, taking into account incompatibilities

### Storage:

Keep away from direct sunlight and other sources of heat and ignition.

Store in a cool, dry place in tightly closed containers.

Requirements to be met by storerooms and receptacles:

Observe laws and regulations on storage and use of substances hazardous to water.

Suitable material for containers and piping: Steel or stainless steel. Unsuitable materials: most plastics, aluminum, neoprene rubber.

Storage instructions:

Keep away from oxidizing agents and strongly acidic or alkaline materials. The provisions of the GefahrstoffVO (German Ordinance on Hazardous Substances) with the associated technical regulations (TRGS 510) must be observed.

Further information on storage conditions:

Temperature class (VDE 0165): T2

Explosion group (VDE 0165): IIA

Recommended storage temperature: 5 - 25 °C

Storage class:

3 Flammable liquids (TRGS 510, Storage of hazardous substances in portable containers).

Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV): Highly flammable

## 7.3 Specific end uses

No further relevant information available.

## Section 8: Exposure controls/personal protective equipment

Additional advice on the design of technical equipment:

Room ventilation or exhaust ventilation. Measures against electrostatic charging.

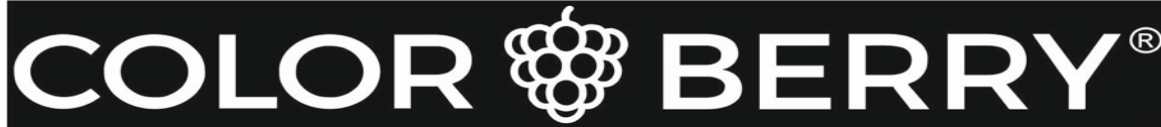
### 8.1 Parameters to be monitored

Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol                      AGW: long-term value: 500 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> 2(II);DFG, Y

DNEL values: 67-63-0 propan-2-ol

Oral	DNEL (population)	26 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	888 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	319 mg/kg bw/day (Long-term - systemic effects)



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Inhalative	DNEL (population)	500 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (worker)	89 mg/m <sup>3</sup> (Long-term - systemic effects)

PNEC values: 67-63-0 propan-2-ol

PNEC	140.9 mg/l (temporary release)
	2251 mg/l (sewage treatment plant)
PNEC aqua	140,9 mg/l (fresh water)
	140.9 mg/l (marine water)
PNEC sediment	552 mg/kg dw (freshwater)
	552 mg/kg dw (seawater)
PNEC soil	28 mg/kg dw (soil)

Components with biological limits: BGW for 67-63-0 propan-2-ol.

BGW: 25 mg/l	Test material: whole blood
	Sampling time: end of exposure or shift
	Parameter: Acetone
BGW: 25 mg/l	Test material: urine
	Sampling time: end of exposure or end of shift
	Parameter: Acetone

Additional notes:

The lists valid at the time of preparation were used as a basis.

## 8.2 Exposure controls and monitoring

Personal Protective Equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Keep away from beverages, food and feed.

Take off immediately all contaminated clothing.

Avoid contact with eyes and skin.

Do not inhale vapors and spray mist...

Respiratory protection:

Not required if room is well ventilated.

Respiratory protection is required if exposure limits are exceeded, inadequate ventilation, inadequate exhaust, prolonged exposure, handling of large quantities.

Recommended filter device for short-term use:

Combination filter A-P1



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Observe wearing time limit and rules for use of respirators (BGR 190).

Hand protection:

Chemical-resistant protective gloves (EN 374).

Before each new use of the glove, check for leaks.

Glove material:

Butyl rubber; Recommended material thickness:  $\geq 0.5$  mm.

The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer.

Penetration time of the glove material:

Observe the information of the protective glove manufacturer on permeability and breakthrough times as well as the special conditions at the workplace (mechanical load, duration of contact). At the first signs of wear, the protective gloves should be replaced.

Gloves made of the following materials are suitable for splash protection:

Chloroprene rubber, recommended material thickness:  $\geq 0.5$  mm, breakthrough time:  $\geq 240$  min.

Gloves made of the following materials are not suitable: Gloves made of PVC; natural rubber (latex).

Eye protection: Tight-fitting safety goggles.

Body protection:

Standard protective work clothing. Chemical resistant safety shoes or boots. If skin contact may occur, wear protective clothing impervious to this substance.

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

General information:

Appearance:

Form: liquid

Odor:

Color: colorless  
alcoholic

Odor Threshold:

Not determined

pH-value:

Not applicable

Melting point/ Melting range:

-89 °C

Initial boiling point and boiling range:

82 °C (ASTM D 1078)

Flash point:

12 °C (DIN 51758)

Evaporation rate:

Not determined

Flammability (solid, gas):

425 °C (DIN 51794)

Explosive properties

The product is not explosive, but the formation of explosive vapour/air mixtures is possible.

Explosion limits

lower: 2 Vol % upper: 12 Vol %





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Vapor pressure at 20°C:	42.2 mbar
Vapor density:	Not determined
Density at 20°C:	0.785 g/cm <sup>3</sup> (DIN 51757)
Solubility in / Miscibility with Water:	completely miscible
Partition coefficient: n-octanol/water at 25 °C::	0.05 log POW
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity dynamic at 20 °C:	2.43 mPas (DIN 53015)
Oxidizing properties	Not determined

## 9.2 Other informations

Oxidizing properties:  
The product is not oxidizing.  
Evaporation number (2-propanol): 1.2 (n-butyl acetate = 1).

## Section 10: Stability and Reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:  
Keep away from sources of ignition.  
To avoid thermal decomposition do not overheat.  
Distillable at normal pressure without decomposition.

### 10.3 Possibility of hazardous reactions

Formation of ignitable vapor-air mixtures possible.  
Reactions with strong oxidizing agents.  
Reactions with strong acids.

### 10.4 Conditions to avoid

Avoid: Heat, flames, sparks



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### 10.5 Incompatible materials:

Alkalis (lyes)  
strong oxidizing agents  
strong acids

### 10.6 Hazardous decomposition products:

Thermal decomposition may produce various substances, the exact composition of which depends on the decomposition conditions.  
In case of fire, formation of carbon monoxide CO and carbon dioxide CO<sub>2</sub>.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

Based on available data, the classification criteria are not met.  
LD/LC<sub>50</sub> values relevant for classification:

67-63-0 propan-2-ol

Oral	LD <sub>50</sub>	4570 mg/kg (rat)
Dermal	LD <sub>50</sub>	> 2000 mg/kg (rab) 13400 mg/kg (rab)
Inhalation	LD <sub>50</sub> / 4h	30 mg/l (rat)

Primary irritant effect:

On skin:

Frequent and prolonged skin contact may cause skin irritation.

Serious eye damage/irritation

Causes severe eye irritation.

Respiratory/ Skin Sensitization:

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

Subacute to chronic toxicity

Germ cell mutagenicity: Ames test: Negative



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Specific target organ repeated exposure toxicity:

67-63-0 propan-2-ol

Oral NOAEL 900 mg/kg (rat) ((90d) OECD 408)

CMR effects (carcinogenic, mutagenic and toxic for reproduction):

To the best of our current knowledge, no CMR effects are known.

Germ Cell Mutagenicity:

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

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

Based on available data, the classification criteria are not met. Specific target organ toxicity (single exposure):

May cause drowsiness and dizziness.

Specific Target Organ Repeated Exposure Toxicity:

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

Aspiration hazard:

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

## Section 12: Environmental information

### 12.1 Toxicity

Aquatic Toxicity:

67-63-0 propan-2-ol

EC 50 / 48 h	> 100 mg/l (Greater water flea (Daphnia magna))
EC 50 / 72 h	> 100 mg/l (Scenedesmus subspicatus)
LC 50 / 48 h	> 100 mg/l (Leuciscus idus)

### 12.2 Persistence and degradability

Rapid photochemical oxidation in air.

Readily biodegradable



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### 12.3 Bioaccumulative potential

Dissolves in water. Disappears within one day by evaporation and dissolution. If large quantities are released, they may penetrate the soil and damage groundwater. Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected. ( $\log P(o/w) < 1$ ).

### 12.4 Mobility in soil

Ecotoxic effects:

No further relevant information available.

Other information:

No further relevant information available.

Other ecological information:

No further relevant information available.

General information:

Must not get into ground water, water bodies or sewage system. Water hazard class 1 (list classification): slightly hazardous for water according to VwVwS.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## Section 13: Disposal instructions

### 13.1 Waste Treatment Procedures

The note below refers to the product left as is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

Recommendation:

Dispose of in accordance with regional government regulations.



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**Section 14: Transport information****14.1 UN number**

ADR, IMDG, IATA: UN1219

**14.2 UN proper shipping name**

ADR	1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
IMDG	ISOPROPANOL (ISOPROPYL ALCOHOL) I
ATA	ISOPROPANOL (ISOPROPYL ALCOHOL)

**14.3 Transport hazard classes**

ADR		IMDG, IATA
Class:	3 (F1) Flammable liquids	Class: Flammable liquids
Hazard label:	3	Label: 3

**14.4 Packing group**

ADR, IMDG, IATA: II

**14.5 Environmental hazards.**

Not applicable.  
Marine pollutant: No

**14.6 Special precautions for user:**

Not applicable.  
Hazard identification number (Kemler number): 33 EMS number: F-E,S-D



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

Not applicable.

Transport/further information:

ADR:

Limited Quantity (LQ): 1 L  
Excepted Quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

Transport category: 2  
Tunnel restriction code: D/E

IMDG

Limited quantities (LQ) 1L  
Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

UN Model Regulation:  
UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II, (D/E)

### Section 15: Regulatory information

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

National regulations:

Observe employment restrictions for children and adolescents according to Directive 94/33/EC and relevant national regulations.

Hazardous Incident Ordinance:

Substance group 7 (Highly flammable liquids); observe quantity thresholds.  
Classification according to Ordinance on Industrial Safety and Health (BetrSichV): Highly flammable

Technical Instructions on Air Quality Control:

Class NK  
Proportion in % 50-100  
VOC content: 100%



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Water hazard class: WGK 1 (list classification): slightly hazardous for water.  
Identification number: 135

### 15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has been carried out and is available on request.

### Section 16: Other information

The information is based on the present state of our knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

#### Relevant phrases:

Full text of the hazard statements (H and R phrases) given with abbreviations in Section 3. These phrases refer only to the ingredients. The label of the product is given in section 2.

H225 Highly flammable liquid and vapor.

H319 Causes severe eye irritation.

H336 May cause drowsiness and dizziness.

Data sheet issuing area: See informing area.

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

ICAO: International Civil Aviation Organization

LEV: Local Exhaust Ventilation

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008) EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technical Rules for Dangerous Substances (BAuA, Germany).

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)



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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

# Data changed from previous version