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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.03.2023 Version number 15.00 (replaces version 14.00) Revision: 16.03.2023

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

· Product identifier

· Trade name: <u>Isopropyl alcohol</u>

· Article number: 7058

· CAS Number:

67-63-0

· EC number:

200-661-7

· Index number:

603-117-00-0

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31

D-40721 Hilden

GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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· Hazard pictograms



· 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.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

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

regulations.

· Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- · Substances
- · CAS No. Description

CAS: 67-63-0 propan-2-ol

- · Identification number(s)
- · EC number: 200-661-7
- · Index number: 603-117-00-0

4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents: All regular extinguishing media can be used.
- Special hazards arising from the substance or mixture

Combustible. Vapours are haevier / denser than air and spread on floor. Ignition possible even in greater distance. In case of fire carbon monoxide can be released.

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- **Additional information**

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- \cdot Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: TRHS 510: 3 Flammable liquid
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

CAS: 67-63-0 propan-2-ol

OEL Short-term value: 400 ppm Long-term value: 200 ppm

Sk

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Respiratory protection: Respiratory with filter.
- · Hand protection Not required.
- Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odour threshold:
Fluid
Clear
Alcohol-like
Not determined.

· Melting point/freezing point: -89.5 °C

· Boiling point or initial boiling point and boiling

range 82 °C

· Flammability Not applicable.

· Lower and upper explosion limit

• **Lower:** 2 Vol % • **Upper:** 12 Vol %

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12 °C · Flash point: 425 °C · Ignition temperature:

· Decomposition temperature: Not determined. Not determined.

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic at 20 °C: 2.43 mPas

· Solubility

· water at 20 °C: 1 g/l

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 43 hPa

· Density and/or relative density

· Density at 20 °C: 0.785 g/cm³ · Relative density Not determined. · Vapour density Not determined.

· Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Auto-ignition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Change in condition

· Pyrophoric liquids

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void · Explosives

Void Void · Flammable gases

Void · Aerosols Void

Void · Oxidising gases Void Void

· Gases under pressure Void Void

· Flammable liquids Highly flammable liquid and vapour.

Void

· Flammable solids Void

Void

· Self-reactive substances and mixtures Void Void

> Void Void

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|---|-------|--------------------|
| · Pyrophoric solids | Void | , , , |
| | Void | |
| · Self-heating substances and mixtures | Void | |
| | Void | |
| Substances and mixtures, which emit flamm | nable | |
| gases in contact with water | Void | |
| | Void | |
| · Oxidising liquids | Void | |
| | Void | |
| · Oxidising solids | Void | |
| | Void | |
| · Organic peroxides | Void | |
| | Void | |
| · Corrosive to metals | Void | |
| | Void | |
| · Desensitised explosives | Void | |
| - | Void | |
| | | |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions Reactions with oxidants and strong acids.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Oral LD50 5,045 mg/kg (rat)
Dermal LD50 12,800 mg/kg (rabbit)
Inhalative LC50 30 mg/m3 (rat)

· Skin corrosion/irritation

Local irritation of skin possible (slightly irritant).

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

- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation

Can have a sensitizing effect.

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

- · 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.
- · STOT-single exposure May cause drowsiness or dizziness.

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- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · **Aspiration hazard** Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity: Repeated exposition can cause neuronal damage.
- Additional toxicological information:

High concentrations can cause tiredness, dizziness or loss of consciousness.

Vapors and liquid can cause eye irritation.

- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

Fische: Leuciscuc idus LC 50 > 100mg /l/48h Daphnien: Daphnia magna EC50 > 100mg/l/48h Algen: Scenedesmus subspicatus EC50 < 100mg/l/72h

LC50 >100 mg/L //48h (fish: leuciscus idus)

EC50 >100 mg/kg //72h (Scenedesmus subspicatus)

>100 mg/kg //48h (Daphnia magna)

- · Persistence and degradability Easily biodegradable
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil

Soluble in water. Disappears within one day by evaporation and dissolution. No substancial bioaccumulation. If big quantities are released, the product can penetrate into soil and have harmful effect on ground water.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Residues can be a source of explosion hazard.

Empty container completely and let evaporate residues in a safe place.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

*14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN1219

· UN proper shipping name

· ADR 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
· IMDG ISOPROPANOL (ISOPROPYL ALCOHOL)

· IATA Isopropanol (isopropyl alcohol)

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 3 Flammable liquids.

· Label 3

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D

· Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

IMDG

· Limited quantities (LQ)

· UN "Model Regulation": UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

* 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

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DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

- · National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 3 Flammable liquid

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- · Date of previous version: 16.03.2023
- · Version number of previous version: 14.00
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

* Data compared to the previous version altered.

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