

Material Safety Data Sheet

Completed 26-03-2020
SDS version 1.0

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

1.1. Product Identifier

Trade Name: Hand Desinfection Gel 70%
Product- no.:

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

Recommended uses:

Disinfectant Gel (Biocidal Product, PT 1). For disinfection of the hands.

Uses advised against:

This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Company and address:

Gundal
Østerbyvej 4
DK-7190 Billund
+45 7533 2711
www.gundals.dk

Contact person and E-mail:

mail@gundals.dk

The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: DH

1.4. Emergency telephone number

NHS: 111

Use your national or local emergency number - See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008):
Flam. Liq. 2;H225
Eye Irrit. 2;H319

The product is a biocide covered by Regulation (EC) No 528/2012 concerning the making available on the market and use of biocidal products. See full text of H-phrases in section 16.

2.2. Label elements



Signal word:

Danger

Highly flammable liquid and vapour. (H225)
Causes serious eye irritation. (H319)

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)

If eye irritation persists: Get medical advice/attention. (P337 + P313)

Dispose of contents/container in accordance with local regulation. (P501)

2.3. Other hazards

The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs fx. liver and kidney.

Material Safety Data Sheet

Additional labelling:

Use biocides safely. Always read the label and product information before use.

Contains:

Active substances (PT 1)

Ethanol (CAS No. 64-17-5; 63 % (w/w) 529,2 g/L)

Propan-2-ol (CAS No. 67-63-0; 7 % (w/w) 58,8 g/L)

Additional warnings

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Ethanol	603-002-00-5 / -	64-17-5	200-578-6	Flam. Liq. 2;H225, Eye Irrit. 2;H319	63	1
Propan-2-ol	603-117-00-0 / -	67-63-0	200-661-7	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336	7	1

1) The substance is an organic solvent.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Seek fresh air.

Seek medical advice in case of persistent discomfort.

Ingestion:

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.

Seek medical advice in case of persistent discomfort.

Skin contact:

Intended for contact with skin.

Seek medical advice in case of persistent discomfort.

Eye contact:

Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

Burns:

Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

Additional information:

When obtaining medical advice, show the safety data sheet or label.

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

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguish with powder, foam, carbon dioxide or water mist.

Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

Avoid inhalation of vapour and fumes – seek fresh air.

Product decomposes in fire conditions and toxic gases such as COx may be released.

Fire will produce dense black smoke.

Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

Material Safety Data Sheet

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment.

6.2. Environmental precautions

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See section 8 for information about precautions for use and personal protective equipment.
Smoking and naked flames prohibited.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging.
Store in a cool, dry place.
Store fireproof. Storage for flammable liquids must follow local regulations for flammable stock.

7.3. Specific end use(s)

See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth Edition 2020):

Substance	Long-term exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Note
Ethanol	1000 / 1920	- / -	-
Propan-2-ol	400 / 999	500 / 1250	-

DNEL/PNEC-values:

DNEL Ethanol

	Workers	Consumers
Inhalation - Chronic Systemic	950 mg/m ³	114 mg/m ³
Dermal - Chronic Systemic	343 mg/kg bw/day	206 mg/kg bw/day
Oral - Chronic Systemic	-	87 mg/kg bw/day

DNEL Propan-2-ol

	Workers	Consumers
Inhalation - Chronic Systemic	500 mg/m ³	89 mg/m ³
Dermal - Chronic Systemic	888 mg/kg bw/day	319 mg/kg bw/day
Oral - Chronic Systemic	-	26 mg/kg bw/day
Oral - Acute Systemic	-	26 mg/kg bw/day

PNEC Ethanol

Fresh water	0,96 mg/L
Intermittent releases (Fresh water)	2,75 mg/L
Marine water	0,79 mg/L
Soil	0,63 mg/kg soil dw

PNEC Propan-2-ol

Fresh water	140,9 mg/L
Intermittent releases (Fresh water)	140,9 mg/L
Marine water	140,9 mg/L
Soil	28 mg/kg soil dw

Material Safety Data Sheet

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

Wear the personal protective equipment specified below.
Do not eat, drink or smoke when using this product.

Personal protective equipment:

Respiratory protection:

Generally not required.

Hand protection:

Not required.

Eye/face protection:

Generally not required.
Wear safety goggles if there is a risk of eye splash.

Skin protection:

Not required.

Environmental exposure controls:

Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state:	Viscous
Colour:	Colourless
Odour:	Alcohol
Odour threshold:	-
pH:	6,0 - 8,0
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	< 21
Evaporation rate:	-
Flammability (solid, gas):	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure:	44 mmHg
Vapour density (air=1):	> 1
Relative density:	0,84, @ 20 °C
Solubility(ies):	Miscible with water
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity:	> 400 cPs, @ 20 °C
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.
Combustible at temperatures above the flash point.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

Material Safety Data Sheet

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as COx may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Based on the existing data, the classification is not met.

Substance	exposure	Species	Test	Result
Ethanol	Oral	Rat	LD50	10470 mg/kg bw
Ethanol	Inhalation	Rat	LC50/ 4 Hours	116,9 mg/L air
Propan-2-ol	Oral	Rat	LD50	5,84 g/kg bw
Propan-2-ol	Inhalation	Rat	LC50/ 6 Hours	ca. 5000 ppm
Propan-2-ol	Dermal	Rabbit	LD50	16,4 mL/kg bw

Skin corrosion/irritation:

May cause slight irritation.

Serious eye damage/irritation:

Irritating to eyes. Causes a burning sensation and tearing.

Respiratory or skin sensitisation:

Based on the existing data, the classification is not met.

Germ cell mutagenicity:

Based on the existing data, the classification is not met.

Carcinogenicity:

Based on the existing data, the classification is not met.

Reproductive toxicity:

Based on the existing data, the classification is not met.

STOT-single exposure:

The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

STOT-repeated exposure:

Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

Aspiration hazard:

Based on the existing data, the classification is not met.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Ethanol	48 Hours:	Fish	LC50	14,2 g/L
Ethanol	48 Hours:	Daphnia	LC50	5012 mg/L
Ethanol	48 Hours:	Algae	EC50	275 mg/L
Propan-2-ol	24 Hours:	Fish	LC50	9640 mg/L
Propan-2-ol	24 Hours:	Daphnia	LC50	> 10000 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Ethanol	Yes	BOD	5 Days: 74%
Propan-2-ol	Yes	EU Method C.5	5 Days: 53%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
Ethanol	No	-0,35
Propan-2-ol	No	0,05

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

Material Safety Data Sheet

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
14 06 03	Other solvents and solvent mixtures

Specific labelling:

-

Contaminated packaging:

Empty packaging must be disposed of through the municipal waste collection service for hazardous waste.

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

14.1 -14.4.

ADR

UN number:	UN proper shipping name	Transport hazard class(es)	Packing group
1987	ALCOHOLS, N.O.S. (ethanol and 2-propanol)	3	II

IMDG

UN number:	UN proper shipping name	Transport hazard class(es)	Packing group
1987	ALCOHOLS, N.O.S. (ethanol and 2-propanol)	3	II

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

Not relevant.

SECTION 15: Regulatory information

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

Sources:

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

Additional labelling:

Contains:

Active substances (PT 1)

Ethanol (CAS No. 64-17-5; 63 % (w/w) 529,2 g/L)

Propan-2-ol (CAS No. 67-63-0; 7 % (w/w) 58,8 g/L)

Restrictions for application:

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Young people above 15 years are exempted this rule, if the product is a part of an education/training.

Demands for specific education:

-

15.2. Chemical safety assessment

None.

Material Safety Data Sheet

SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:

Sources:

EC regulation 1907/2006 (REACH), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
EC Regulation 528/2012 (BPR), with amendments.
EU regulation no. 276/2010
Directive 2000/532/EC

Full text of H-phrases as mentioned in section 2+3:

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

Classification according to Regulation (EC) Nr. 1272/2008:

Flam. Liq. 2;H225 On basis of test data
Eye Irrit. 2;H319 Calculation method

Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Minor changes have been made in following sections:

-

This material safety data sheet replaces version:

-