



Safety data sheet

Issue date: 23-01-2017
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Liquid sanitizer

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

Recommended uses: Hand disinfection Biocide substances. Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

1.3. Details of the supplier of the safety data sheet

Supplier: Dan Dryer A/S
Alsikevej8
8920 Randers NV
Denmark
Tel: +45 86 41 57 11
Fax: +45 86 41 60 89
Email: info@dandryer.dk
WWW: www.dandryer.dk

1.4. Emergency telephone number

Members of the public: 111 (NHS 111 (Scotland: NHS 24))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification (Regulation (EC) No 1272/2008): Flam. Liq. 2;H225

Please see section 16 for the full text of H-phrases.

Most serious harmful effects: Highly flammable liquid and vapour.
The product releases vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. May cause eye irritation.

2.2. Label elements



Signal word: Danger

Contains: INCI: ALCOHOL , AQUA, GLYCERIN, ISOPROPYL ALCOHOL, DENATONIUM BENZOATE. TETRAHYDROXYPROPYL ETHYLENEDIAMINE, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER

H-phrases: Highly flammable liquid and vapour.(H225)
P-phrases: Keep out of reach of children.(P102)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)
Dispose of contents/container in accordance with local regulation.(P501-A)

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Registration number	CAS/EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
01-211945761	64-17-5-AE	Ethanol	Flam. Liq. 2;H225	50-80	.
0-43-	200-578-6	.	-	.	.
01-211945755	67-63-0-T	Propan-2-ol	Flam. Liq. 2;H225 Eye Irrit. 2;H319	5-10	.
8-25-	200-661-7	.	STOT SE 3;H336	.	.
.
.	.	Pursuant to Regulation (EC) No. 1223/2009 on cosmetic products:	.	.	.
.	.	INCI: ALCOHOL , AQUA,	.	.	.
.	.	GLYGERIN, ISOPROPYL ALCOHOL,	.	.	.
.	.	DENATONIUM	.	.	.
.	.	BENZOATE.	.	.	.
.	.	TETRAHYDROXYPROPYL	.	.	.
.	.	ETHYLENEDIAMINE,	.	.	.
.	.	ACRYLATES/C10-30 ALKYL	.	.	.
.	.	ACRYLATE CROSSPOLYMER	.	.	.

Please see section 16 for the full text of H-phrases.

Other information: Any letters after the CAS number refer to individual data sets.

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: Wash the skin with water. Seek medical advice in case of persistent discomfort.
Eyes: 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.
Other information: When obtaining medical advice, show the safety data sheet or label.

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

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

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Can generate harmful flue gases containing carbon monoxide in the event of fire.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stop leak if this can be done without risk. Stay upwind/keep distance from source. Smoking and naked flames prohibited. Keep unnecessary personnel away. Provide good ventilation.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

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 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking and naked flames prohibited.

7.2. Conditions for safe storage, including any incompatibilities

There are no special requirements for storage. However, it should be stored safe and out of the reach of children. Do not expose to heat (e.g. sunlight).
Storage temperature: -15-20 °C.
Shelf life: 36 months.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
Ethanol	1000 (8h), - (15m) ppm	-
.	1920 (8h), - (15m) mg/m ³	.
Propan-2-ol	400 (8h), 500 (15m) ppm	-
.	999 (8h), 1250 (15m) mg/m ³	.

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

DNEL values: 64-17-5-AE:
Workers:
Inhalation DNEL (long-term exposure - systemic effects), 950 mg/m³.
Dermal DNEL (long-term exposure - systemic effects), 343 mg/kg.
Inhalation DNEL (acute/short-term exposure - local effects), 1900 mg/m³.

General population:
Oral DNEL (long-term exposure - systemic effects), 87 mg/kg.
Inhalation DNEL (long-term exposure - systemic effects), 114 mg/m³.
Dermal DNEL (long-term exposure - systemic effects), 206 mg/kg.
Inhalation DNEL (acute/short-term exposure - local effects), 950 mg/m³.

67-63-0-T:
Workers:
Dermal DNEL (long-term exposure - systemic effects), 888 mg/kg.
Inhalation DNEL (long-term exposure - systemic effects), 500 mg/m³.

General population:
Dermal DNEL (long-term exposure - systemic effects), 319 mg/kg.
Inhalation DNEL (long-term exposure - systemic effects), 89 mg/m³.
Oral DNEL (long-term exposure - systemic effects), 26 mg/kg bw/day.

PNEC values: 64-17-5-AE:
PNEC aqua (freshwater) 0,96 mg/l.
PNEC aqua (marine water) 0,79 mg/l.
PNEC aqua (intermittent releases) 2,75 mg/l.

PNEC soil 0,63 mg/kg.
PNEC sediment (freshwater) 3,6 mg/kg.
PNEC sediment (marine water) 2,9 mg/l.
PNEC STP (wastewater-treatment facilities) 580 mg/l.

67-63-0-T:
PNEC aqua (freshwater) 140,9 mg/l.
PNEC aqua (marine water) 140,9 mg/l.
PNEC aqua (intermittent releases) 140,9 mg/l.
PNEC soil 25 mg/kg.
PNEC sediment (freshwater) 552 mg/kg.
PNEC sediment (marine water) 552 mg/kg.
PNEC STP (wastewater-treatment facilities) 2251 mg/l.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Not required.

Personal protective equipment, skin protection: Not required.

Personal protective equipment, respiratory 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

State: Liquid
Colour: Colourless
Odour: Alcohol
Odour threshold: No data
pH (solution for use): No data
pH (concentrate): 7,5
Melting point/freezing point: No data
Initial boiling point and boiling range: No data
Flash point: <21 °C
Evaporation rate: No data
Flammability (solid, gas): No data
Upper/lower flammability limits: No data
Upper/lower explosive limits: No data
Vapour pressure: No data
Vapour density: No data
Relative density: 0,85
Solubility: Solubility in water: Complete
Partition coefficient n-octanol/water: No data
Auto-ignition temperature: No data
Decomposition temperature: No data
Viscosity: 830-1130 mPa*s
Explosive properties: Non-explosive
Oxidising properties: Non-oxidising.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	Ingestion of large quantities may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 64-17-5-AE: Rat: LD50 = 10470 mg/kg (OECD 401) 67-63-0-T: Rat: LD50 = 5840 mg/kg (OECD 401)
Acute toxicity - dermal:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 67-63-0-T: Rabbit: LD50 = 16,4 mg/kg (OECD 402)
Acute toxicity - inhalation:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 64-17-5-AE: Rat, 4h: LC50 = 117-125 mg/l (OECD 401) 67-63-0-T: Rat, 6h: LC50 >10000 ppm (OECD 403)
Skin corrosion/irritation:	The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	May cause eye irritation. The product does not have to be classified. Test data are not available. 67-63-0-T: Rabbit: Irritating: (OECD 405)
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity:	67-63-0-T: Fish: <i>Leuciscus idus melanotus</i> : 48hLC50 = 8970-9280 mg/l Crustacea: <i>Daphnia magna</i> : 24hLC50 = 9715 mg/l Algae: <i>Scenedesmus quadricauda</i> : 8dTGK = 9715 mg/l
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12.2. Persistence and degradability

Expected to be biodegradable.

67-63-0-T: Readily biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

The product contains at least one substance with high soil mobility.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge large quantities of concentrated spills and residue into drains. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 07 06 99 wastes not otherwise specified

Absorbent/cloth contaminated with the product:

EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

ADR/RID

14.1. UN number 1987

14.2. UN proper shipping name ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

14.3. Transport hazard class(es) 3

14.4. Packing group II

Hazard identification number 33

Tunnel restriction code: D/E

14.5. Environmental hazards The product should not be labelled as an environmental hazard (symbol: fish and tree).

ADN

14.1. UN number 1987

14.2. UN proper shipping name ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

14.3. Transport hazard class(es) 3

14.4. Packing group II

14.5. Environmental hazards The product should not be labelled as an environmental hazard (symbol: fish and tree).

Transport in tank vessels: Not applicable.

IMDG

14.1. UN number 1987

14.2. UN proper shipping name ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

14.3. Transport hazard class(es) 3

14.4. Packing group II

14.5. Environmental hazards The product is not a Marine Pollutant (MP).

IMDG Code segregation group: -

ICAO/IATA

14.1. UN number 1987

14.2. UN proper shipping name ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

14.3. Transport hazard class(es)

	3
14.4. Packing group	II
14.5. Environmental hazards	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.6. Special precautions for user	None.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

Covered by:

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

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

Special provisions: Directive 2012/18/EU (Seveso), P5b FLAMMABLE LIQUIDS: Column 2: 50 t, Column 3: 200 t.

Batch number and expiration date appears from the packaging.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Abbreviation explanations:

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative

STOT: Specific Target Organ Toxicity

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

Classification method:

Calculation based on the hazards of the known components.

H-phrases:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Training:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.