

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Plum disinfectant 85% hygienic hand sanitizer gel

Version: 2 Previous Issue / Date of last revision Date of issue: 24. 05. 2018 Oldal: 1/(12)
(manufacturers): 25. 02. 2015 / 11. 11. 2015 Latest revision: 02. 03. 2020

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

1.1 Product identifier:

Plum disinfectant 85% hygienic hand sanitizer gel

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

Relevant identified uses: hand sanitizer

Uses advised against: not suitable for surface disinfection.

1.3 Details of the supplier of the safety data sheet:

Supplier details:

Plum A/S
Frederik Plums Vej 2
5610 Assens, DENMARK
Tel: +45 64712112
Fax: +45 64712125
E-mail: info@plum.dk

Distributor details:

Plum Magyarország Kft
8200 Veszprém, Erdész u. 4.
Tel.: + 36 88 326006
Fax: + 36 88 326006
E-mail: info@plum.hu
<http://plum.hu>

1.4 Emergency telephone number

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: +36 80 201 199 (0-24 h, free number).

SECTION 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category:	Hazard statement:
Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Eye Irrit. 2	H319 Causes serious eye irritation.

2.2 Label elements

Product identification: Trade name: **Plum disinfectant 85% hygienic hand sanitizer gel**

Hazardous components: Isopropyl alcohol; Tert-butyl alcohol

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GHS Pictogram:



Signal word:

Danger

Hazard statement:

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

Supplemental hazard information: -

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children.

Precautionary statements – Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.

Precautionary statements – Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: required for distribution population.
Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: A mixture of the following substances.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Ethanol REACH Registr. Nr.: 01-2119457610-43	200-578-6	64-17-5	Flam. Liq. 2 Eye Irrit. 2	H225 H319	65-85
Isopropyl alcohol REACH Registr. Nr.: 01-2119457558-25	200-661-7	67-63-0	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	5-15
Glycerol REACH Registr. Nr.: not necessary	200-289-5	56-81-5	-	-	1-5
Tert-butyl alcohol REACH Registr. Nr.: not necessary	200-889-7	75-65-0	Flam. Liq. 2 Eye Irrit. 2 Acute Tox. 4 STOT SE 3	H225 H319 H332 H335	1-5
1,1',1'',1'''- ethylenedinitrilotetrapropan -2-ol REACH Registr. Nr.: not necessary	203-041-4	102-60-3	Eye Irrit. 2	H319	<1
2-Propenoic acid, homopolymer REACH Registr. Nr.: not necessary	618-347-7	9003-01-4	Eye Irrit. 2 Aquatic Chronic 3	H319 H412	<1

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove exposed person to fresh air and keep warm. Get medical attention.

Skin contact: In case of accidental skin contact: wash with water. If irritation persists, obtain medical attention.

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Eye contact: Flush immediately with plenty of running water for at least 10 minutes, holding the eyelids open. Remove contact lenses, if present and easy to do. Get medical attention.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Drink 1-2 glasses of water with the injured person in small sips. Get medical attention.

Protection of first-aid person: Direct contact with the substance, inhalation of vapors should be avoided.

4.2 Most important symptoms and effects, both acute and delayed

In high concentration and prolonged exposure the vapours are narcotic if inhaled.

Inhalation of vapours may cause drowsiness, indisposition, stomachache, headache, depression, and unconsciousness.

Prolonged and/or repeated contact may cause skin irritation, depending on individual sensitivity. May be irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment need

Treat symptomatically.

SECTION 5 Fire-fighting measures

Fire hazards:

Flammable.

5.1 Extinguishing media

Suitable extinguishing media:

Foam, dry chemical, water spray, CO₂.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning carbon-monoxide, carbon dioxide can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

If possible, remove the product from fire

Cool containers exposed to fire with water spray from safe distance.

Vapours may form explosive mixture with air.

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SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: see Section 8.
Keep away from sources of ignition. –No smoking.
Avoid contact with eyes, inhalation of vapours.
Danger of slipping on leaked out/spilled product.
- 6.2 Environmental precautions:
Prevent spills from entering into natural water, soil and drains by containing the liquid.
Notify relevant authority.
- 6.3 Methods and material for containment and cleaning up
On soil: Keep away from all sources of ignition - No smoking. Stop leak if you can do so without risk. Sufficient ventilation should be provided. Use non-sparking, explosion-proof devices. Collect spillage with non-combustible liquid-absorbent material (sand, diatomaceous earth, acid binder, universal liquid binder) and place in an appropriate storage container. Dispose of as hazardous waste.
Dispose of according to local regulations. Clean up with large amount of water the contaminated area.
On water: Notify local authorities according to regulations.
- 6.4 Reference to other sections
Personal precautions: see section 8.
Waste treatment methods: see section 13.

SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
Keep general measures applied for normal operations with chemicals and flammable liquids.
Adequate ventilation required.
Keep material away from and open flame. No smoking.
Take precautionary measures against static discharges.
Avoid contact with eyes, inhalation of vapours.
Ensure washing facilities after working hours and before breaks.
When using do not eat or drink and do not smoke.
Handling temperature: no data.

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- 7.2 Conditions for safe storage, including any incompatibilities
Keep general measures applied for safe storage for flammable liquids.
Store in cool, well-ventilated area, in original, radiant heat, open flame and strong oxidizing agents.
Keep out of the reach of children.
Storage temperature: 0-30°C.
- 7.3 Specific end use(s)
Hand sanitizer.

SECTION 8 Exposure controls / personal protection

Engineering control measures:
Adequate ventilation.

8.1 Control parameters:

Isopropyl alcohol: TLV (TWA) 980 mg/m³ (400 ppm)
USA [ACGIH]

Ethanol: TLV (TWA) 1920 mg/m³ (1000 ppm)

8.2 Exposure controls

Personal protection:

Respiratory protection: Under normal conditions not required. In case of exceeded exposure-limits (respiratory protection with particle-filter (typ. A) is recommended.

Hand protection: Protective gloves if there is a risk of prolonged skin contact.

Eye protection: Where splashing is possible, wear protective goggles (EN 166).

Skin protection: Protective clothing.

Other special: Personal protective equipment is primarily for working with large quantities, or required in the event of an accident.
An emergency eye wash station shall be available at the workplace.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: liquid (gel)

Colour: colorless

Odour: alcohol

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Change in physical state:

Pour point: no data

Boiling point: 78°C

Others:

Flash point: <21°C

Ignition point: no data

Autoignition temperature: no

Explosive properties: formation of explosive air/steam mixtures is possible.

Explosion limits: lower/upper: no data

Decomposition temperature: no data

Oxidizing properties: no data

Vapour pressure at 20°C: no data

Density at 20°C: 0.800 – 0.900 g/cm³

Solubility in water at 20°C: soluble

Thermal decomposition: no data

n-Octanol/water partition coefficient: no data

pH (undiluted): 7-9

Viscosity at 20 °C: no data

9.2 Other information

No data.

SECTION 10 Stability and reactivity

10.1 Reactivity: Strong oxidizing agents.

10.2 Chemical stability: No decomposition if stored and handled properly.

10.3 Possibility of hazardous reactions: Contact with strong oxidizing agents may cause the product to heat up and create explosive vapors.

10.4 Conditions to avoid: Keep away from sources of ignition - Avoid overheating.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

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SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Components:

Ethanol:

Oral:	LD ₅₀ (rat):	>2000 mg/kg	(OECD 401)
Dermal:	LD ₅₀ (rabbit)	>2000 mg/kg	(OECD 402)
Inhalation:	LC ₅₀ (mouse):	>20 mg/l/4 /h	

Isopropyl alcohol:

Oral:	LD ₅₀ (rat):	>2000 mg/kg	(OECD 401)
Dermal:	LD ₅₀ (rabbit)	>2000 mg/kg	(OECD 402)
Inhalation:	LC ₅₀ (rat):	>20 mg/l/8 /h	

Acute toxicity: irritation

Skin contact: not irritant (based on components)

Eye contact: irritant (based on components)

Respiratory or skin sensitisation: not sensitising (based on components)

Other information, specific effects:

Germ cell mutagenicity:	not known, resp. not mutagen (based on components)
Carcinogenicity:	not known, resp. not carcinogen (based on components)
Reproductive toxicity:	not known, resp. no reproduction-damaging effect (based on components)
STOT-single exposure:	not classified
STOT-repeated exposure:	not classified
Aspiration hazard:	not classified

SECTION 12 Ecological information

12.1 Toxicity

No data available for the preparation.

Components:

Ethanol:

Fish (<i>Leuciscus idus melanotus</i>):	LC ₅₀	>100 mg/l (48 h)
Algae (<i>Chlorella pyreniodosa</i>):	EC ₅₀	5 000 mg/l
Daphnia (<i>Daphnia magna</i>):	EC ₅₀	>100 mg/l (24 h)
Bacterium (<i>Pseudomonas putida</i>):	EC ₀	6500 mg/l (16 h)

Isopropyl alcohol:

Fish (<i>Leuciscus idus melanotus</i>):	LC ₅₀	>100 mg/l (48 h)
Algae (<i>Scenedesmus subspicatus</i>):		>100 mg/l (72 h)
Daphnia (<i>Daphnia magna</i>):	EC ₅₀	>100 mg/l (48 h)

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- 12.2 Persistence and degradability
Biodegradability: The product is readily biodegradable.
- 12.3 Bioaccumulative potential Not bioaccumulation.
- 12.4 Mobility
Mobility in soil: No data.
Mobility in water: Soluble in water.
- 12.5 Results of PBT and vPvB assessment Does not contain PBT and vPvB substances.
- 12.6 Other adverse effects
Environmental effects: Large spills may be hazardous to the environment.
Water hazard class (German): -

SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
Product disposal:
Wastes of the product or used oil should be treated as hazardous waste.
Waste Identification Code: 07 06 04*
Other organic solvents, washing liquids and mother liquors.
Waste Identification Code: 16 03 05*
Organic wastes containing dangerous substances. (manufacturer's recommendation)
Disposal must be in compliance with national and local regulations.
- Packaging disposal:
Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.
Waste Identification Code: 15 01 10*
Packaging containing residues of or contaminated by dangerous substances.
Contaminated packaging can be recycled after cleaning.
Recommended waste treatment method: no data
Disposal must be in compliance with national and local regulations.
- Wastewater:
Quality of wastewater emitted to natural water must comply with national and local regulations.
- Care should be taken in any case to ensure compliance with EC, national and local regulations.
It is the responsibility of the user to know all relevant national and local regulations.

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SECTION 14 Transport information

Land transport:

Road/ Railway

ADR/RID:

- | | |
|------------------------------------|--|
| 14.1 UN number: | 1987 |
| 14.2 UN proper shipping name: | ALCOHOLS, N.O.S.
(Ethanol, Isopropyl alcohol) |
| 14.3 Transport hazard class(es): | 3 |
| 14.4 Packing group: | II |
| Hazard label: | 3 |
| 14.5 Environmental hazards: | no |
| 14.6 Special precautions for user: | |
| Tunnel restriction code: | D/E |
| Class: | 3 |
| Hazard identification No.: | 33 |

Waterways:

- | | |
|------------------------------------|--|
| 14.1 UN number: | 1987 |
| 14.2 UN proper shipping name: | ALCOHOLS, N.O.S.
(Ethanol, Isopropyl alcohol) |
| 14.3 Transport hazard class(es): | 3 |
| 14.4 Packing group: | II |
| 14.5 Environmental hazards: | no |
| 14.6 Special precautions for user: | |
| EMS No.: | F-E, S-D |

Air transport: ICAO / IATA:

- | | |
|------------------------------------|--|
| 14.1 UN number: | 1987 |
| 14.2 UN proper shipping name: | ALCOHOLS, N.O.S.
(Ethanol, Isopropyl alcohol) |
| 14.3 Transport hazard class(es): | 3 |
| 14.4 Packing group: | II |
| 14.5 Environmental hazards: | no |
| 14.6 Special precautions for user: | - |

SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture or substance.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment.
not available

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SECTION 16 Other information

Source of data presented in this material safety data sheet:

Test results of this product

Material safety data sheets of product's components

1272/2008/EC regulation, Annex XVII. of REACH

Relevant Hungarian and EU regulations

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC

Flam. Liq. 2 H225 calculation method

Eye Irrit. 2 H319 calculation method

The full text of each relevant Hazard classes and cat. and H- phrase in Section 3.:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. 2 Flammable liquid Category 2

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

Acute Tox. 4 Acute toxicity Category 4

STOT SE 3 Specific target organ toxicity — single exposure Category 3

Aquatic Chronic 3 Hazardous to the aquatic environment, Chronic Category 3

Legend:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

BCF Bioconcentration Factor

BOD Biological Oxygen Demand

Bw Body Weight

C&L Classification and Labelling

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

CMR Carcinogenic, Mutagenic or toxic to Reproduction

COD Chemical Oxygen Demand

CSA Chemical Safety Assessment

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CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version
8	Control parameters:	02.03.2020	2