

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006
Disicide® Hand Sanitizer Gel

Valid from 2020-04-21

Version 1.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Disicide® Hand Sanitizer Gel
500 ml Art.nr. 035004

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

Use of the Substance/Mixture: Disinfectant

1.3 Details of the supplier of the safety data sheet

Manufacturer Terapima Sweden AB
Smidesvägen 13
24534 Staffanstorp, Sweden
+46 46 238495
info@disicide.com

1.4 Emergency telephone number Please call your local emergency number

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical hazards Flam. Liq. 2 H225
Health Hazards Eye Irrit. 2 – H319
Environmental hazards Not Classified

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Danger

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

Precautionary statements

Prevention: P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
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.
P501 Dispose of contents/ container in accordance with national regulations.

Supplementary precautionary statements

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Contains: This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS □

3.1 Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
Ethanol CAS-No: 64-17-5 EC-No: 200-578-6 REACH: 01-2119457610-43	60-80 %	Flam. Liq. 2 Causes serious eye irritation	H225 H319
Butanone CAS-No: 78-93-3 EC-No: 201-159-0 REACH: 01-2119457290-43-XXXX	1-1,99 %	Flam. Liq. 2 Causes serious eye irritation STOT SE3	H225 H319 H336
2-METHYLPROPAN-2-OL CAS-No: 75-65-0 EC-No: 200-889-7 REACH: 01-2119444321-51-XXXX	0,1 – 0,99 %	Flam. Liq. 2 Causes serious eye irritation Acute Tox. 4 STOT SE3	H225 H319 H332 H336
Denatonium Benzoate CAS-No: 3734-33-6 EC-No: 223-095-2	0,1 – 0,99 %	Acute Tox. 4 Aquatic Chronic 3	H332 H412
ETHANOL, 2,2',2''-NITRILOTRIS- CAS-No: 102-71-6 EC-No: 203-049-8	0,1 – 0,99 %	Not Classified	
DIETHANOLAMINE CAS-No: 111-42-2 EC-No: 203-868-0	< 0,099 %	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 STOT RE 2	H332 H315 H318 H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES □

4.1. Description of first aid measures

General Information Get medical attention if any discomfort continues.
Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion Drink a few glasses of water or milk. Do not induce vomiting.
Eye contact Wash with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

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

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion May cause nausea, headache, dizziness and intoxication.
Skin contact Prolonged contact may cause redness, irritation and dry skin.
Eye contact Causes serious eye irritation.

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

Notes for the doctor: No specific recommendations.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Protective actions during firefighting

Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment for firefighters

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

For personal protection, see Section 8.

6.2. Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and materials for containment and cleaning up

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material.

Small Spillages: Wipe away with paper or textile fabric.

6.4. Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions

Good personal hygiene procedures should be implemented. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container dry

7.3. Specific end use(s)

Specific use(s): The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m³

Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m³

Sk

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2-METHYLPROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

BUTANONE (CAS: 78-93-3)

DNEL

Workers - Dermal; Long term systemic effects: 1161 mg/kg/day

Workers - Inhalation; Long term systemic effects: 600 mg/m³

Consumer - Dermal; Long term systemic effects: 412 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 106 mg/m³

Consumer - Oral; Long term systemic effects: 31 mg/kg/day

PNEC

Fresh water; 55,8 mg/l

Marine water; 55,8 mg/l

Intermittent release; 55,8 mg/l

STP; 709 mg/l

Soil; 22,5 mg/kg

Sediment; 284,7 mg/kg

8.2. Exposure controls

Personal protective equipment



Appropriate engineering controls

All handling should only take place in well-ventilated areas.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Provide eyewash station and safety shower.

Hygiene measures

When using do not eat, drink or smoke.

Respiratory protection

No specific recommendation made, but chemical cartridge protection may still be required for organic dusts/vapours known to be toxic.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:	Gel
Colour:	Colourless
Odour:	Alcoholic
Odour Threshold:	No data available
pH:	No data available
Melting point:	No data available
Boiling point:	No data available
Flash point:	< 23 °C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available

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Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	0,8
Water solubility:	Slightly soluble in water
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Explosive under the influence of a flame:	Yes
Oxidizing properties:	No data available

9.2. Other information

No further information available.

10. STABILITY AND REACTIVITY



10.1. Reactivity

Advice: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Advice: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions: No information available.

10.4. Conditions to avoid

Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid: No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products No information available.

11. TOXICOLOGICAL INFORMATION



11.1. Information on toxicological effects

Toxicological effects No data is available regarding the preparation it self.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

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Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

Ingestion

May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Causes serious eye irritation.

Toxicological information on ingredients.

ETHANOL

Acute toxicity inhalation

(LC₅₀ vapours mg/l) 124.7

ATE inhalation (vapours mg/l) 124.7

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

BUTANONE

Acute toxicity inhalation

(LC₅₀ vapours mg/l) 9.0

ATE inhalation (vapours mg/l) 9.0

Denatonium Benzoate

Acute toxicity - oral

ATE oral (mg/kg) 500.0

ETHANOL, 2,2',2''-NITRILOTRISAcute

toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 7,200.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 22,000.0

Species Rabbit

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DIETHANOLAMINE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

12. ECOLOGICAL INFORMATION



12.1. Toxicity

Ecotoxicity There are no data on the ecotoxicity of this product.

Ecological information on ingredients.

ETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: ~ 13500 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity – aquatic Invertebrates EC50, 48 hours: ~ 5400 mg/l, Daphnia magna

Acute toxicity – aquatic plants IC50, 72 hours: > 10.9 mg/l, Marinewater algae

BUTANONE

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 400 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity – aquatic invertebrates EC50, 48 hours: >520 mg/l, Daphnia magna

Acute toxicity – aquatic plants IC50, 72 hours: 110 mg/l, Marinewater algae

ETHANOL, 2,2',2''-NITRILOTRIS

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 7900 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity – aquatic invertebrates EC50, 48 hours: > 2500 mg/l, Daphnia magna

Acute toxicity – aquatic plants IC50, 72 hours: 216 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

ETHANOL, 2,2',2''-NITRILOTRIS

Biodegradation Degradation (%) 89: 14 days
OECD 301C

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

ETHANOL

Bioaccumulative potential BCF: ~ 0.66,
Partition coefficient log Pow: ~ -0.32

BUTANONE

Partition coefficient log Pow: 0,68

12.4. Mobility in soil

Mobility No information available

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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No information required.

13. DISPOSAL CONSIDERATIONS



13.1. Waste treatment methods

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

14. TRANSPORT INFORMATION



14.1. UN number 1170

14.2. UN proper shipping name

ADR / RID	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
IMDG	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
ICAO	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
ADN	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packaging group

ADR/RID	II
IMDG	II
ICAO	II
ADN	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•2YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

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

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15. REGULATORY INFORMATION

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

National regulations

COUNCIL DIRECTIVE of may 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H337	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, mutagenic or toxic to reproduction
COD	Chemical oxygen demand
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	Median lethal concentration
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NLP	No-longer polymer
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
STOT	Specific target organ toxicity
SVHC	Substance of very high concern
UVCB	Substance of unknown or variable composition, complex reaction products or biological materials
vPvB	Very persistent and very bioaccumulative

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Key literature references and sources for data

Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification

The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings

The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Shelf life of this product is 3 years after production date, this information is printed on the bottle.