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.

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

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

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

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 LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC_{50}) 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.

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
(LC_{50} 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
(LC_{50} 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 (LD_{50} mg/kg) 7,200.0
Species Rat

Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg) 22,000.0
Species Rabbit

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 EC_{50}, 48 hours: ~ 5400 mg/l, Daphnia magna

Acute toxicity – aquatic plants IC_{50}, 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 EC_{50}, 48 hours: >520 mg/l, Daphnia magna

Acute toxicity – aquatic plants IC_{50}, 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 EC_{50}, 48 hours: > 2500 mg/l, Daphnia magna
Acute toxicity – aquatic plants IC_{50}, 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

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

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

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.