

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Manorapid Synergy**

Revision date: 09.03.2017

Product code: ANTI015

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Manorapid Synergy

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

Disinfectant for hands

**1.3. Details of the supplier of the safety data sheet**

Company name:	ANTISEPTICA Dr. Hans Joachim Molitor GmbH	
Street:	Carl-Friedrich-Gauß-Straße 7	
Place:	D-50259 Pulheim/Brauweiler	
Telephone:	++49 (0)2234 /98466-0	Telefax: ++49 (0)2234 / 98466-11
e-mail:	sdb@antiseptica.com	
Contact person:	Scientific Technical Department	Telephone: ++49 (0)2234 / 98466-27
e-mail:	sdb@antiseptica.com	
Internet:	www.antiseptica.com	

**1.4. Emergency telephone number:**Gif tinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de  
Telephone: ++49 (0)551 / 1 92 40**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Isopropanol, Ethanol

In the countries of the EU where the product is registered as a medicinal product, no labeling is carried out according to the CLP regulation (as stated here).

**Signal word:** Danger**Pictograms:****Hazard statements**

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

**Precautionary statements**

P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P235	Keep cool.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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smoking.

P102

Keep out of reach of children.

**2.3. Other hazards**

May form explosive mixtures with air in exceptional situations (for example, misting, development of heat or leakage of large amounts in unventilated spaces).

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64-17-5	ethanol, ethyl alcohol			30 - < 100 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
71-23-8	propan-1-ol; n-propanol			10 - < 15 %
	200-746-9	603-003-00-0	01-2119486761-29	
	Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air.

**After contact with skin**

not applicable

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

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

none

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, alcohol resistant foam

**5.2. Special hazards arising from the substance or mixture**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

In case of fire dangerous vapors / gases can be released

Carbon monoxide, Carbon dioxide

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**5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Keep away from sources of ignition - No smoking.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Wipe up with absorbent material (eg. cloth, fleece). Suitable material for taking up: Sand Universal binder.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed. Caution near alcohol-sensitive materials (e.g., lacquered jewelry or watches of certain type of plastic).

**Further information on handling**

Keep away from food, drink and animal feedingstuffs. Change contaminated, saturated clothing. Avoid eye contact.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Vapours are heavier than air. Keep only in the original container in a cool, well-ventilated place. Avoid: frost. Keep out of the reach of children. Keep locked up and out of reach of children.

**Advice on storage compatibility**

Vapours may form explosive mixtures with air. Ensure a good ventilation also in the floor area. Vapours are heavier than air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

**Further information on storage conditions**

Protect against direct sunlight. Keep away from food, drink and animal feedingstuffs.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
		250	625		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	950 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	1900 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	950 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
71-23-8	propan-1-ol; n-propanol			
Worker DNEL, long-term		dermal	systemic	136 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	268 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	1723 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	81 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	80 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	1036 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	61 mg/kg bw/day

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
64-17-5	ethanol, ethyl alcohol	
Freshwater		
		0.96 mg/l
Marine water		
		0.79 mg/kg
Freshwater sediment		
		3.6 mg/kg
Micro-organisms in sewage treatment plants (STP)		
		580 mg/l
Soil		
		0.63 mg/kg
71-23-8 propan-1-ol; n-propanol		
Freshwater		
		10 mg/l
Marine water		
		1 mg/l
Freshwater sediment		
		22.8 mg/kg
Marine sediment		
		2.28 mg/kg
Micro-organisms in sewage treatment plants (STP)		
		96 mg/l
Soil		
		2.2 mg/kg

**8.2. Exposure controls****Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes.

**Eye/face protection**

Eye protection: goggles

**Hand protection**

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

**Respiratory protection**

Not required with good ventilation. Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method**

pH-Value (at 20 °C): approx. 3

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: Ethanol: 78 °C

Flash point: 22 °C DIN 51755

Lower explosion limits: Ethanol: 2.5 vol. %

Upper explosion limits: Ethanol: 15 vol. %

Density: approx. 0.9 g/cm<sup>3</sup>

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Water solubility:	easily soluble
Partition coefficient:	not applicable
Viscosity / dynamic:	not determined
Evaporation rate:	not determined

**9.2. Other information**

Solid content:	not determined
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is stable. No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Safe handling: see section 7

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 mg/kg	6200	Rat	IUCLID
	inhalative (4 h) vapour	LC50	95,6 mg/l		IUCLID
71-23-8	propan-1-ol; n-propanol				
	oral	LD50 mg/kg	8000	Rat	
	dermal	LD50 mg/kg	4032	Rabbit	
	inhalative (4 h) vapour	LC50	>33.8	Rat	

**Irritation and corrosivity**

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Propan-1-ol:

In case of skin contact:

BASF Test: Not an irritant.

In case of eye contact:

BASF Test: irreversible damage

Ethanol:

OECD 404 (Acute Dermal Irritation/Corrosion) Rabbit

Not an irritant.

OECD 405 (Acute Eye Irritation/Corrosion) Rabbit

slightly irritant

**Sensitising effects**

Propan-1-ol:

OECD 406 Guinea pig : negative.

Ethanol:

OECD 429 (Skin Sensitisation - Local Lymph Node Assay) Mouse

not sensitising.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Ethanol:

OECD 471 (Bacterial Reverse Mutation Test) Salmonella Typhimurium  
negative.OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)  
negative.OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) Mouse  
negative.OECD 473 (In Vitro Mammalian Chromosome Aberration Test)  
negative.OECD 471 (Bacterial Reverse Mutation Test)  
negative.**STOT-repeated exposure**

Ethanol:

OECD 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents) Rat  
NOAEL 1730 mg/kg/dOECD 403 (Acute Inhalation Toxicity) Rat  
>20 mg/l**SECTION 12: Ecological information****12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50 mg/l	13000	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50 mg/l	12340	48 h	Daphnia magna	
71-23-8	propan-1-ol; n-propanol					
	Acute fish toxicity	LC50 mg/l	4555	96 h	Pimephales promelas (fathead minnow)	
	Acute crustacea toxicity	EC50 mg/l	3644	48 h	Daphnia magna (Big water flea)	
	Crustacea toxicity	NOEC mg/l	>100	21 d	Daphnia magna (Big water flea)	
	Acute bacteria toxicity	(>1000 mg/l)		3 h	Activated sludge	

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64-17-5	ethanol, ethyl alcohol			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	97%		
71-23-8	propan-1-ol; n-propanol			
		75%	20	
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,32
71-23-8	propan-1-ol; n-propanol	0.2

**BCF**

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	3.2		
71-23-8	propan-1-ol; n-propanol	0.88		

**12.4. Mobility in soil**

Ethanol: No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

Water hazard class (WGK): 1

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**



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070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors; hazardous waste

**Waste disposal number of contaminated packaging**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (Ethanol, propan-1-ol; n-propanol)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601 640D  
Limited quantity: 1 L  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

**Marine transport (IMDG)**

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (Ethanol, n-Propanol)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol, n-propanol)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3

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Special Provisions:	A3 A180
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 57.604 %

2004/42/EC (VOC): 57.604 %

**Additional information**

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)

Classification according to Regulation (EC) No 1272/2008 [CLP]

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 11.

**Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Further Information**

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*