

CorpuSan Skindisinfection

Material number 02

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

Trade name: CorpuSan Skindisinfection

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

General use: Hand disinfectant

1.3 Details of the supplier of the safety data sheet

Company name:	Miscea GmbH	Manufacturer:	IVN Nettetal GmbH
Street/POB-No.:	Hauptstraße 2		Herrenpfad-Süd 31
Postal Code, city:	14979 Großbeeren		41334 Nettetal
	Deutschland		Germany
WWW:	http://www.miscea.com		http://www.corpusan.com
Telephone:	+49 (0) 33701355350		
Department responsible for information:	E-Mail: berlin@miscea.com		

1.4 Emergency telephone number

Informationszentrale gegen Vergiftungen
Adenauerallee 119
53113 Bonn
Tel.: 0228/19240 (Notruf) , Fax: 0228/287-33278 oder -33314 gizbn@ukb.uni-bonn.de
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Flam. Liq. 2; H225 Highly flammable liquid and vapour.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.

2.2 Label elements**Labelling (CLP)**

Signal word:

Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER/doctor if you feel unwell.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling:

Use biocides safely. Always read the label and product information before use.
Mixture contains 70 mg/100 mg Isopropyl alcohol
EU BPR Product type 1: Human hygiene (Disinfectants)
EU BPR Product type 2: Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)
Dispose of waste according to applicable legislation. Do not dispose of with household waste. Handle contaminated packages in the same way as the substance itself.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Results of PBT and vPvB assessment:

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

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Aqueous solution

Hazardous ingredients:

Identifiers	Designation	Content	Classification
EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol	70 % (v/v)	Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.

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

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SECTION 4: First aid measures**4.1 Description of first aid measures**

General information:	First aider: Pay attention to self-protection! IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse. If you feel unwell, seek medical advice.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.
Causes serious eye irritation.
Higher doses may lead to a narcotic effect. After resorption: Headache, dizziness, inebriation, unconsciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media:

Water spray jet, extinguishing powder, alcohol resistant foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.
Air combined with vapours may form potentially explosive mixtures that are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.
In case of fire may be liberated: Carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

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Additional information:

Hazchem-Code: •2YE

Move undamaged containers from immediate hazard area if it can be done safely.

Heating will lead to pressure increase: Danger of bursting and explosion.

Suppress gases/vapours/mists with water spray jet.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Keep containers cool with water spray.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

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

Avoid breathing mist/vapours/spray. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

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

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Work place should be equipped with a shower and an eye rinsing apparatus.

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Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take action to prevent static discharges.
Air combined with vapours may form potentially explosive mixtures that are heavier than air. In partially filled containers explosive mixtures may form.
Use only explosion-protected equipment/instruments. Do not weld.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Protect from heat and direct sunlight. Maximum fill: 95 %
Store containers in upright position.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from food, drink and animal feedingstuffs.
Avoid contact with strong oxidizing agents, strong acids, alkalis and alkaline earth metals.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEL	1250 mg/m ³ ; 500 ppm
		Great Britain: WEL-TWA	999 mg/m ³ ; 400 ppm

DNEL/DMEL:

Information about Isopropyl alcohol:
Systemic effects:
DNEL Long-term, workers, dermal: 888 mg/kg bw/d
DNEL Long-term, workers, inhalative: 500 mg/m³
DNEL Long-term, consumers, oral: 26 mg/kg bw/d
DNEL Long-term, consumers, dermal: 319 mg/kg bw/d
DNEL Long-term, consumers, inhalative: 89 mg/m³

PNEC:

Information about Isopropyl alcohol:
PNEC water (freshwater): 140.9 mg/L
PNEC water (marine water): 140.9 mg/L
PNEC water (intermittent release): 140.9 mg/L
PNEC sediment (freshwater): 552 mg/kg dw
PNEC sediment (marine water): 552 mg/kg dw
PNEC soil: 28 mg/kg dw
PNEC sewage treatment plant: 2,251 mg/L
PNEC Secondary Poisoning, oral: 160 mg/kg food and feedingstuffs

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

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Personal protection equipment**Occupational exposure controls**

- Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.
Recommendation: Use filter type A (= against vapours of organic substances) according to BS EN 14387.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection: Protective gloves according to BS EN ISO 374:1.
Glove material:
Nitrile rubber, layer thickness: ≥ 0.35 mm, breakthrough time: 8 h
Butyl caoutchouc (butyl rubber), layer thickness: ≥ 0.5 mm, breakthrough time: 8 h
Polychloroprene, layer thickness: ≥ 0.5 mm, breakthrough time: 4 h
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Unsuitable glove material: PVC (polyvinyl chloride), NR (natural rubber, Natural latex).
- Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.
- Body protection: Flame retardant, antistatic and chemical resistant protective clothing.
- General protection and hygiene measures:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing vapours. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
When using do not eat or drink.
Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

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

- Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: Colourless, clear
- Odour: Alcoholic
- Odour threshold: No data available
- pH: No data available
- Melting point/freezing point: -88 °C (Isopropyl alcohol)
- Initial boiling point and boiling range: 82 - 83 °C (Isopropyl alcohol)
- Flash point/flash point range: 21.5 °C (DIN 51755)
- Evaporation rate: No data available
- Flammability: Highly flammable liquid and vapour.
- Explosion limits: LEL (Lower Explosion Limit): 2.00 Vol-% (Isopropyl alcohol)
UEL (Upper Explosive Limit): 13.40 Vol-% (Isopropyl alcohol)
- Vapour pressure: No data available
- Vapour density: No data available

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Density:	No data available
Water solubility:	at 20 °C: Completely miscible
Partition coefficient: n-octanol/water:	at 25 °C: 0.05 log P(o/w) (Isopropyl alcohol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reactions with strong acid.
Liquid evaporates quickly. Vapours are heavier than air and will spread at floor level.
Beware of reignition.
Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protect from direct sunlight.

10.5 Incompatible materials

Strong acid, strong oxidizing agents
Reacts at room temperature with alkali, less so with alkaline earth metals (with formation of hydrogen), at higher temperatures a measurably stronger reaction occurs.

10.6 Hazardous decomposition products

Thermal decomposition: No decomposition when used properly.
No data available

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Information about Isopropyl alcohol:

Gene-mutations mammalian cells (in-vitro, hamster): negative. (OECD 476)

Bacterial mutagenicity: (in-vitro, Ames test): negative. (OECD 471)

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Information about Isopropyl alcohol:

LD50 Rat, oral: 5,840 mg/kg (OECD 401)

LD50 Rabbit, dermal: 13,900 mg/kg (OECD 402)

LC50 Rat, inhalative: > 25 mg/L/6h (OECD 403)

Specific symptoms in animal studies, guinea pig: not sensitising (OECD 406).

Gene-mutations mammalian cells (in-vitro, hamster): negative. (OECD 476)

Bacterial mutagenicity: (in-vitro, Ames test): negative. (OECD 471)

Micronucleus test: (in-vivo, Mouse): negative. (OECD 474)

Symptoms

In case of inhalation: Headache, dizziness, inebriation, unconsciousness.

In case of ingestion:

Nausea, vomiting, abdominal pain, gastrointestinal complaints, blood pressure drop.

After intake of large amounts: unconsciousness, coma, breathing paralysis (death).

If swallowed or in the event of vomiting, risk of entering the lungs. Absorption can lead to kidney and liver damage.

After contact with skin:

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

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SECTION 12: Ecological information**12.1 Toxicity**

Aquatic toxicity: Information about Isopropyl alcohol:
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): 9,640 mg/L/96h (OECD 203)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 10,000 mg/L/48h (OECD 202)
Algae toxicity:
NOEC Scenedesmus quadricauda: 1,800 mg/L/7d

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
at 25 °C: 0.05 log P(o/w) (Isopropyl alcohol)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Waste key number: 07 01 04* = Other organic solvents, washing liquids and mother liquors
* = Evidence for disposal must be provided.

Recommendation: Recycling or special waste incineration.
Do not dispose of with household waste.

Package

Recommendation: Handle empty containers with care. Incineration may cause explosion.
Dispose of waste according to applicable legislation.
Cleaning agent (recommendation): water

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SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1219

14.2 UN proper shipping name

ADR/RID, IMDG: UN 1219, ISOPROPANOL (ISOPROPYL ALCOHOL) solution

IATA-DGR: UN 1219, ISOPROPANOL solution

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 33, UN number UN 1219

Hazard label: 3

Special Provisions: 601

Limited quantities: 1 L

EQ: E2

Package - Instructions: P001 IBC02 R001

Special provisions for packing together: MP19

Portable tanks - Instructions: T4

Portable tanks - Special Provisions: TP1

Tank coding: LGBF

Tunnel restriction code: D/E

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Sea transport (IMDG)

EmS: F-E, S-D
Special Provisions: -
Limited quantities: 1 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1
Stowage and handling: Category B.
Properties and observations: Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12%. Miscible with water.
Segregation group: none

Air transport (IATA)

Hazard label: Flamm. liquid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions: A180
Emergency Response Guide-Code (ERG): 3L

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

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •2YE
No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: Physical hazards: Code P5c,
Quantity threshold 5 000 000 kg / 50 000 000 kg

Use restriction according to REACH annex XVII, no.: 3,40, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

Abbreviations and acronyms:

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
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PVC: Polyvinyl chloride
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Date of first version: 11/9/2020

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.