



Ethades

Hand Disinfectant



For general disinfection and hygienic hand disinfection

- dries streak free
- hygienic hand disinfection according to EN 1500
- surgical hand disinfection according to EN 12791
- suitable for use in the food industry, healthcare, hospitality, cosmetic industry, laboratories, as well as general disinfection within private kitchens, computer equipment, tools and furniture

Product description

Ready-to-use product suitable for disinfecting the skin and small surfaces.

Ethades is registered in The Netherlands with registration number N-14065. Ethades is also registered with bava (D) and notification at FPS Health, Food Chain Safety and Environment (B). Product meets the requirements of the Working Party on Infection Prevention (NL), Higher Health Council (B) and World Health Organization.

The efficacy of Ethades is demonstrated by means of the following tests:

EN 1040 Pseudomonas Aeruginosa & Staphylococcus Aureus

EN 1276 E. coli, Candida Albicans & Salmonella typhimurium

EN 1500 E. coli

EN 13727 E. coli, S. aureus, P.aeruginosa & E. hirae

EN 14476 Murine Norovirus

EN 1275 Candida Albicans & Aspergillus Niger

EN 13697 Salmonella typhimurium

EN 12791 hands of volunteers are not contaminated with a test organism, but the resident flora on the hands is evaluated before and after exposure to the tested product.

Field of application

Ethades is permitted for use as a disinfectant for hygienic and surgical hand disinfection. It is also permitted for use for disinfecting small surfaces such as kitchen- and computer- equipment, instruments, furniture, sanitary, showcases and machines. Can be applied in (sport) canteens, food service industry, kitchens, bakeries, butcheries etc. Fights bacteria, moulds and viruses. Do not bring in direct contact with food or eating utensils!

Dosing instructions and type of applications

A. Use for hygienic and surgical hand disinfection:

- Use on clean, dry hands.
- Apply Ethades hand disinfectant to the hands.
- Carefully rub hands together for 30 seconds for hygienic hand disinfection, and 180 seconds for surgical hand disinfection. Ensure, the fingertips, thumbs, the areas between the fingers and wrists are also thoroughly covered with Ethades Hand Disinfectant solution.
- Make sure your hands stay wet during the entire exposure time of 30 seconds for hygienic hand disinfection and 180 seconds for surgical hand disinfection.
- Let hands dry well.

B. Use as a disinfectant for small surfaces:

- Thoroughly clean surfaces and materials with suitable detergents.
- Then rinse with clean water. Remove any excess water.
- Use enough Ethades disinfectant (ca. 40-50 ml of product per square meter), so that the surfaces remain wet during the entire exposure time of 30 seconds.



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Hand Disinfectant



Active substance composition

Ethades is based on pure ethanol (580 g / l - 73.4% v / v)

Packaging sizes

- 1000 ml vacuum sealed pouch
- 1000 ml bottle

Chemical-physical data

Appearance: Transparent
Scent: Unscented
pH value: 6.5

Safety instructions



Danger

R 10 Flammable. R 36 Irritating to eyes. R 67 Vapours may cause drowsiness and dizziness. S 7 Keep container tightly closed. S 16 Keep away from sources of ignition - No smoking. S 25 Avoid contact with eyes. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Safety and storage

For more information about storage, transportation and safety we would like to refer to the safety data sheet. Use the disinfectant safely. Always read the product information and label before use.



Using Antibacterial Skin Cleansers

Standard hand-rub method in accordance with EN 1500



1 rub palm on palm



2 rub left palm over back of right hand and vice versa



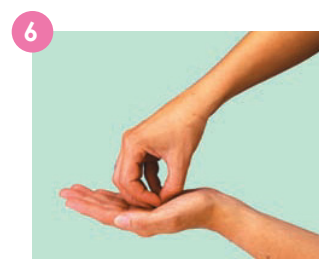
3 rub palm on palm with fingers interlaced



4 rub back of fingers on opposing palms with hands interlaced



5 rub thumbs rotationally



6 rub palm rotationally with clasped fingers

Put antibacterial cleanser onto dry hands. The product must be allowed to act for a total of 30 seconds. Rub in the product following each of the steps illustrated above and repeating each action five times up to the wrists. Begin at step 1 again if the 30 seconds has not yet elapsed after step 6 and continue until the cleanser has been on the skin for the allotted time. Apply more of the product while cleaning the skin, as and when required. The skin must remain moist for the full contact time.

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make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer.

SAFETY DATA SHEET

Ethades

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - Germany

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

1.1 Product identifier

Product name : Ethades
Product description : Biocides - pesticides for non agricultural uses - Human hygiene biocidal products (PT1) Biocides - pesticides for non agricultural uses - Private area and public health area disinfectants and other biocidal products (PT2) Biocides - pesticides for non agricultural uses - Food and feed area disinfectants (PT4)
Recommended use : Industrial/Professional use

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

This product should not be used for applications other than those described in Section 1.

1.3 Details of the supplier of the safety data sheet



Miscea GmbH
Hauptstrasse 2
14979 Grossbeeren
Duitsland

Telephone number : +49 33701 3553
Website : www.miscea.com
e-mail address of person responsible for this SDS : berlin@miscea.com

1.4 Emergency telephone number

National advisory body/Poison Center
Telephone number : +49 30-18412-3460

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 2, H225

Ingredients of unknown toxicity :
Ingredients of unknown ecotoxicity :

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10
Physical/chemical hazards : Flammable.

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SECTION 2: Hazards identification

Remark : Not available.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.

Precautionary statements

Prevention : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed.

Response : -

Storage : Store in cool/well-ventilated place.

Disposal : -

Hazardous ingredients :

Supplemental label elements : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	w/w %	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥50 - <75	F; R11	Flam. Liq. 2, H225	[2]
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥3 - <5	F; R11 Xi; R36 R67 See section 16 for the full text of the R-phrases declared above	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	[1] [2]

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SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 4: First aid measures

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Industrial/Professional use

Industrial sector specific solutions : This product should not be used for applications other than those described in Section 1.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
ethanol	TRGS900 AGW (Germany, 12/2014). TWA: 960 mg/m ³ 8 hours. PEAK: 1920 mg/m ³ 15 minutes.
propan-2-ol	TWA: 500 ppm 8 hours. PEAK: 1000 ppm 15 minutes. TRGS900 AGW (Germany, 9/2013). TWA: 500 mg/m ³ 8 hours. PEAK: 1000 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	
propan-2-ol	DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	89 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	26 mg/kg	Consumers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
propan-2-ol	Fresh water	140,9 mg/l	-
	Marine water	140,9 mg/l	-
	Fresh water sediment	552 mg/kg	-
	Marine water sediment	552 mg/kg	-
	Soil	28 mg/kg	-
	Sewage Treatment Plant	2251 mg/l	-

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

- Hygiene measures** : Not applicable.
- Eye/face protection** : Possible: safety glasses with side-shields.
- Skin protection**

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SECTION 8: Exposure controls/personal protection

Hand protection	: Not applicable.
Body protection	: Not applicable.
Other skin protection	: Not applicable.
Respiratory protection	: Possible: organic vapor filter (Type A)
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Colorless. Clear.
Odor	: Characteristic.
pH, ca.	: 7
Melting point/freezing point	: <-5°C
Initial boiling point and boiling range	: 95°C
Flash point	: Closed cup: 21°C [Pensky-Martens.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0,85
Solubility(ies)	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: >400°C
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, oxidizing materials and combustible materials. Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts, reducing materials, organic materials, metals, acids, alkalis and moisture.
Oxidizing properties	: Geen oxiderende eigenschappen.

9.2 Other information

VOC Contents

Regulation	Product as-supplied
Without volume exclusion	601,2 g/l 70,7 % (w/w)

No additional information.

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SECTION 10: Stability and reactivity

- 10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability : The product is stable.
- 10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- 10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials
- 10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethades	LD50 Dermal	Rat	12 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : No specific data.

Eye contact : No specific data.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
propan-2-ol	Acute LC50 1400000 µg/l Marine water Acute LC50 1400000 µg/l	Crustaceans - Crangon crangon Fish - Gambusia affinis	48 hours 96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
propan-2-ol	0,05	-	low

12.4 Mobility in soil

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SECTION 12: Ecological information

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.





Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1987	UN1987	UN1987	UN1987
14.2 UN proper shipping name	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	Alcohols, n.o.s. (ethanol, Isopropyl alcohol)
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.

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SECTION 14: Transport information

<p>Additional information</p>	<p><u>Hazard identification number</u> 33</p> <p><u>Limited quantity</u> 1 L</p> <p><u>Special provisions</u> 601, 274, 640D</p> <p><u>Tunnel code</u> (D/E)</p>	<p><u>Special provisions</u> 274, 601, 640D</p>	<p><u>Emergency schedules (EmS)</u> F-E, S-D</p> <p><u>Special provisions</u> 274</p>	<p><u>Passenger and Cargo Aircraft</u> Quantity limitation: 5 L Packaging instructions: 353</p> <p><u>Cargo Aircraft Only</u> Quantity limitation: 60 L Packaging instructions: 364</p> <p><u>Limited Quantities - Passenger Aircraft</u> Quantity limitation: 1 L Packaging instructions: Y341</p> <p><u>Special provisions</u> A3, A180</p>
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14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Annex VIIA - Labelling for Contents

Annex VIIA - Labelling for Contents : Not applicable.

National regulations

Germany

Biocidal Products Directive : This product is a biocidal product as defined in EU Directive 98/8/EC. Its supply and use may be subject to certain requirements or restrictions specified in this directive.

Authorization number : BauA N-38604

Storage code : 3

Hazardous incident ordinance : Applicable. Category: 6 Flammable.

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SECTION 15: Regulatory information

Hazard class for water : 2 Appendix No. 4
Technical instruction on air quality control : TA-Luft Number 5.2.5: 71,2%
AOX :
 The product does not contain organically bound halogens which could lead to an AOX value in waste water.
Other regulations :

15.2 Chemical Safety Assessment : Not yet complete.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	Expert judgment

References : Not available.
Full text of abbreviated H statements : H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness and dizziness.
Full text of classifications [CLP/GHS] : Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Full text of abbreviated R phrases : R11- Highly flammable.
 R10- Flammable.
 R36- Irritating to eyes.
 R67- Vapors may cause drowsiness and dizziness.
Full text of classifications [DSD/DPD] : F - Highly flammable
 Xi - Irritant
Product code : 00311
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Date of issue/ Date of revision : 25.08.2015.
Date of previous issue : No previous validation.
Version : 1

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