

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9/7/2021 Revision date: 9/7/2021 Supersedes version of: 1/13/2021 Version: 4.00

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

1.1. Product identifier

Trade name : smartdent Flächendesinfektion
Article number : REF 111359, REF 111360

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Medical device

Germicide Cleaning agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

 Supplier
 Email competent person

 Alfred Becht GmbH
 sds@kft.de

Alfred Becht GmbH Carl-Zeiss-Str. 16 P.O. Box 1145 77656 Offenburg

T +49 781 60586-0 - F +49 781 60586-40

1.4. Emergency telephone number

Emergency number : Poisoning Information Centre Freiburg

+ 49 761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 1 H318

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)





GHS02

GHS05

Signal word (CLP) : Danger
Contains : n-propanol

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H318 - Causes serious eye damage.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames. No smoking.

P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER, a doctor.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required

Component			
ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
n-propanol (71-23-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
butanone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
didecyldimethylammonium chloride (7173-51-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Cleaning agent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol substance with national workplace exposure limit(s) (DE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	≥ 25 – < 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319
n-propanol	CAS-No.: 71-23-8 EC-No.: 200-746-9 EC Index-No.: 603-003-00-0	≥ 5 – < 10	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
butanone substance with national workplace exposure limit(s) (DE); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	≥ 0.25 – < 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
didecyldimethylammonium chloride	CAS-No.: 7173-51-5 EC-No.: 230-525-2 EC Index-No.: 612-131-00-6	< 0.1	Acute Tox. 3 (Oral), H301 (ATE=264 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

Specific concentration limits:					
Name	Product identifier	Specific concentration limits			
ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	(50 ≤C < 100) Eye Irrit. 2, H319			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : When in doubt or if symptoms are observed, get medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after eye contact : Serious damage to eyes.

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 : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : Explosive vapour/air mixtures may be formed.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide (CO2). Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Protect container with water spray.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed

containers exposed to fire with water spray. Disposal must be done according to official

regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate air

ventilation. Do not breathe gas/vapour/aerosol.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Avoid sub-soil penetration.

9/7/2021 (Revision date) DE - en 3/16

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Cover spill with non combustible material, e.g.: sand/earth. Take up mechanically

(sweeping, shovelling) and collect in suitable container for disposal.

Other information : Dispose of materials or solid residues at an authorized site. Disposal must be done

according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : In use, may form flammable vapour-air mixture.

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use only non-sparking tools. Use explosion-proof equipment. Wear personal protective equipment. Avoid

contact with skin and eyes.

Hygiene measures : Immediately remove contaminated or damp clothing. Do not eat, drink or smoke when using

this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Protect against frost. Store in a well-ventilated place. Keep cool. Keep container tightly

closed.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Keep away from heat and direct sunlight.

Information about storage in one common storage

facility

: Keep away from food, drink and animal feeding stuffs. Store away from Acids, oxidizing

materials.

7.3. Specific end use(s)

Follow the directions!.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

butanone (78-93-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Butanone	
IOEL TWA	600 mg/m³	
IOEL TWA [ppm]	200 ppm	
IOEL STEL	900 mg/m³	
IOEL STEL [ppm]	300 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	Butanon	
AGW (OEL TWA) [1]	600 mg/m³	
AGW (OEL TWA) [2]	200 ppm	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

butanone (78-93-3)					
Peak exposure limitation factor	1(1)				
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden				
Regulatory reference	TRGS900				
Germany - Biological limit values (TRGS 903)					
Local name	2-Butanon (Methylethylketon)				
Biological limit value	2 mg/l				
Remark	U, b, 05/2015, DFG				
Regulatory reference	TRGS 903				
ethanol (64-17-5)					
Germany - Occupational Exposure Lim	its (TRGS 900)				
Local name	Ethanol				
AGW (OEL TWA) [1]	380 mg/m³				
AGW (OEL TWA) [2]	200 ppm				
Peak exposure limitation factor	2(II)				
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden				
Regulatory reference	TRGS900				

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

n-propanol (71-23-8)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	1723 mg/m³		
Long-term - systemic effects, dermal	136 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	268 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, inhalation	1036 mg/m³		
Long-term - systemic effects,oral	61 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	80 mg/m³		
Long-term - systemic effects, dermal	81 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	6.83 mg/l		
PNEC aqua (marine water)	0.683 mg/l		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

n-propanol (71-23-8)				
PNEC (Sediment)				
PNEC sediment (freshwater)	27.5 mg/kg dwt			
PNEC sediment (marine water)	2.75 mg/kg dwt			
PNEC (Soil)				
PNEC soil	1.49 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	96 mg/l			
butanone (78-93-3)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	600 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	31 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	106 mg/m³			
Long-term - systemic effects, dermal	412 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	55.8 mg/l			
PNEC aqua (marine water)	55.8 mg/l			
PNEC aqua (intermittent, freshwater)	55.8 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	284.74 mg/kg dwt			
PNEC sediment (marine water)	284.7 mg/kg dwt			
PNEC (Soil)				
PNEC soil	22.5 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	1000 kg/kg food			
PNEC (STP)				
PNEC sewage treatment plant	709 mg/l			
ethanol (64-17-5)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	950 mg/m³			
DNEL/DMEL (General population)	DNEL/DMEL (General population)			
Long-term - systemic effects,oral	87 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	114 mg/m³			
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	0.96 mg/l			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ethanol (64-17-5)			
PNEC aqua (marine water)	0.79 mg/l		
, ,	Ţ.		
PNEC aqua (intermittent, freshwater)	2.75 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	3.6 mg/kg dwt		
PNEC sediment (marine water)	2.9 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.63 mg/kg dwt		
PNEC (Oral)			
PNEC oral (secondary poisoning)	0.38 kg/kg food		
PNEC (STP)			
PNEC sewage treatment plant	580 mg/l		
didecyldimethylammonium chloride (7173-51-5)			
PNEC (Water)			
PNEC aqua (freshwater)	0.0011 mg/l		
PNEC aqua (marine water)	0.00011 mg/l		
PNEC aqua (intermittent, freshwater)	0.00021 mg/l		
PNEC aqua (intermittent, marine water)	0.000021 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	61.86 mg/kg dwt		
PNEC sediment (marine water)	6.186 mg/kg dwt		
PNEC (Soil)			
PNEC soil	1.4 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	0.14 mg/l		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear closed safety glasses. EN 166. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 13034. EN ISO 13688

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. Butyl rubber. Neoprene. Polyethylene. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Short term exposure. Breathing apparatus with filter. A-P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust. For details on conditions of use and maximum use concentrations, see DGUV Regulation 112-190 - Use of respiratory protective equipment.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product. Apply emollient cream.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour colourless. Odour alcohol odour. Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability Not applicable

Explosive properties : Product is not explosive. Explosive vapour/air mixtures may be formed.

Oxidising properties : Non oxidizing. Explosive limits : Not available Lower explosive limit (LEL) Not available Upper explosive limit (UEL) Not available Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature : Not available : < 10 Ha

Viscosity, kinematic : Not available

Solubility : Water: Miscible (Solution)

Partition coefficient n-octanol/water (Log Kow) : Not available
Partition coefficient n-octanol/water (Log Pow) : Not applicable
Vapour pressure : Not available
Vapour pressure at 50 °C : Not available
Density : 0.91 g/cm³ (Solution)

Not available Relative density : Not available Relative vapour density at 20 °C Not applicable Particle size Particle size distribution Not applicable Particle shape Not applicable Particle aspect ratio Not applicable Not applicable Particle aggregation state Not applicable Particle agglomeration state Particle specific surface area Not applicable Particle dustiness Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Explosive vapour/air mixtures may be formed.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

STOT-repeated exposure

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	. Informa	tion on hazard	d classes	as def	ined in F	Regulation	(EC) No	o 1272/2008
------	-----------	----------------	-----------	--------	-----------	------------	---------	-------------

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)			
didecyldimethylammonium chloride (7173-51-5)				
LD50 oral rat	264 mg/kg bodyweight (female; (OECD 401 method))			
LD50 dermal rat	≈ 3342 mg/kg bodyweight (EPA)			
	Not classified (Based on available data, the classification criteria are not met) pH: < 10			
,	Causes serious eye damage. pH: < 10			
Respiratory or skin sensitisation :	Not classified (Based on available data, the classification criteria are not met)			
Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)			
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)			
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)			
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)			
n-propanol (71-23-8)				
STOT-single exposure	May cause drowsiness or dizziness.			
butanone (78-93-3)				
STOT-single exposure	May cause drowsiness or dizziness.			

9/7/2021 (Revision date) DE - en 9/16

: Not classified (Based on available data, the classification criteria are not met)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$

: Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term

: Not classified (Based on available data, the classification criteria are not met)

(chronic)

didecyldimethylammonium chloride (7173-51-5)		
LC50 - Fish [1]	0.49 mg/l (96 h; Brachydanio rerio (zebra-fish); (OECD 203 method))	
EC50 - Crustacea [1]	0.057 mg/l (48 h; Daphnia magna; (OECD 202 method))	
EC50 72h algae	≈ 0.062 mg/l (72h; Pseudokirchneriella subcapitata; (OECD 201 method))	
ErC50 algae	0.062 mg/l (72 h; Pseudokirchnerella subcapitata (OECD 201 method))	
NOEC chronic crustacea	0.021 mg/l (21 d; Daphnia magna; (OECD 211 method))	
NOEC chronic algae	0.013 mg/l (OECD 201 method)	

12.2. Persistence and degradability

smartdent Flächendesinfektion		
Persistence and degradability	The product has not been tested.	
n-propanol (71-23-8)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	75 % (20 d)	
butanone (78-93-3)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	98 % (28 d; OECD 301)	
ethanol (64-17-5)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	84 % (20 d)	
didecyldimethylammonium chloride (7173-51-5)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	69 % (28d)	

12.3. Bioaccumulative potential

smartdent Flächendesinfektion		
Partition coefficient n-octanol/water (Log Pow) Not applicable		
Bioaccumulative potential The product has not been tested.		
n-propanol (71-23-8)		
Partition coefficient n-octanol/water (Log Pow)	0.2 (25 °C; pH 7; (OECD 117 method))	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

butanone (78-93-3)		
Partition coefficient n-octanol/water (Log Pow)	0.3 (40 °C; pH 7; (OECD 117 method))	
Bioaccumulative potential Bioaccumulation unlikely.		
ethanol (64-17-5)		
Partition coefficient n-octanol/water (Log Kow)	-0.35 (20 °C)	
Bioaccumulative potential Bioaccumulation unlikely.		
didecyldimethylammonium chloride (7173-51-5)		
Partition coefficient n-octanol/water (Log Pow)	2.59 (20 °C; (OECD 105 method))	

12.4. Mobility in soil

smartdent Flächendesinfektion		
Ecology - soil The product has not been tested.		
n-propanol (71-23-8)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc) 0.633 (Quantitative structure-activity relationship (QSAR))		
ethanol (64-17-5)		
Surface tension 22.31 mN/m (20 °C)		
didecyldimethylammonium chloride (7173-51-5)		
Surface tension 25.82 mN/m (OECD 115 method)		

12.5. Results of PBT and vPvB assessment

smartdent Flächendesinfektion		
PBT: not relevant – no registration required		
vPvB: not relevant – no registration required		
Component		
ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
propanol (71-23-8) This substance/mixture does not meet the PBT criteria of REACH regulation, annex This substance/mixture does not meet the vPvB criteria of REACH regulation, annex		
butanone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
didecyldimethylammonium chloride (7173-51-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : European waste catalogue. Disposal must be done according to official regulations.

9/7/2021 (Revision date) DE - en 11/16

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

European List of Waste (LoW) code

HP Code

- : Do not allow into drains or water courses.
- : Do not dispose of with domestic waste.
- : Flammable vapours may accumulate in the container.
- : 07 01 01* aqueous washing liquids and mother liquors
- : HP3 "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993	
14.2. UN proper shippin	g name				
FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1- ol)	nol ; propan-1- N.O.S. (ethanol ; propan-2- (ethanol ; propan-2-ol) N.O.S. (ethanol ; propan-2-		FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2- ol)		
Transport document descr	iption				
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; propan-1-ol), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 3, II	UN 1993 Flammable liquid, n.o.s. (ethanol; propan-2- ol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 3, II	
14.3. Transport hazard o	class(es)				
3	3	3	3	3	
3		3	3	3	
14.4. Packing group	14.4. Packing group				
II	II	II	II	II	
14.5. Environmental hazards					
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary information	n available		1		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640C

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2 Transport category (ADR) 2 33

Hazard identification number (Kemler No.)

Orange plates

33 1993

Tunnel restriction code (ADR) : D/E

Transport by sea

Special provisions (IMDG) : 274 Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-E

Air transport

: E2 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3

Inland waterway transport

Classification code (ADN) : F1

: 274, 601, 640C Special provisions (ADN)

Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T Additional requirements/Remarks (ADN)

Rail transport

Classification code (RID) : F1

: 274, 601, 640C Special provisions (RID)

Limited quantities (RID) : 1L Excepted quantities (RID) : E2 Transport category (RID) : 2 Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code Applicable on	
3(a)	smartdent Flächendesinfektion ; butanone ; ethanol ; n-propanol
smartdent Flächendesinfektion ; butanone ; ethanol ; n-propanol	
40.	smartdent Flächendesinfektion ; butanone ; ethanol ; n-propanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Other information, restriction and prohibition

: Take note of Directive 94/33/EC on the protection of young people at work.

regulations

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

15.1.2. National regulations

Germany

Employment restrictions : Employment prohibitions or restrictions on the protection of young people at work according

to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Listed in the 12. BImSchV (Annex I) under: 1.2.5.3

- Quantity threshold for operational area under § 1 para. 1

- Sentence 1 :5000000 kg - Sentence 2 :50000000 kg

National Rules and Recommendations : TRGS 400: Risk Assessment for Activities involving Hazardous Substances

TRGS 500: Protective measures

TRGS 510: Storage of hazardous substances in non-stationary containers

TRGS 520: Construction and operation of collection points and temporary storage for small

amounts of hazardous waste

TRGS 900: Occupational Exposure Limits

TRGS 903: Biological limit values

Storage class (LGK, TRGS 510) : LGK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

General revision.

Indication of changes			
Section	Changed item	Change	Comments
8.1	PNEC	Modified	
9.1	Physical and chemical properties	Modified	

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	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	
IATA	International Air Transport Association	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
ATE	Acute Toxicity Estimate	
DNEL	Derived-No Effect Level	
DMEL	Derived Minimal Effect level	
IARC	International Agency for Research on Cancer	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PNEC	Predicted No-Effect Concentration	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	

Data sources : Information provided by the manufacturer. MSDSs of the suppliers. ECHA (European

Chemicals Agency).

Department issuing data specification sheet: : KFT Chemieservice GmbH Im Leuschnerpark 3

D-64347 Griesheim

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 SDS Service: +49 6155 8981-522

Contact person : Katharina Rieker

Full text of H- and EUH-statements:		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Liq. 2	H225	Calculation method	
Eye Dam. 1	H318	Calculation method	

KFT SDS EU 01

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.