according to Regulation (EC) No. 1907/2006

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mikrozid®	l universal wip	es No Change Service!
Version	Revision Date:	Date of last issue: 24.02.2016
02.00	02.06.2017	Date of first issue: 19.10.2015
SECTION 1 :	Identification of the	e substance/mixture and of the company/undertaking
1.1 Product ic	lentifier	
Trade nar	me	: mikrozid® universal wipes
1.2 Relevant i	dentified uses of the	substance or mixture and uses advised against
Use of the stance/Mi		: Disinfectants and general biocidal products
Recomme on use	ended restrictions	: Reserved for industrial and professional use.
1.3 Details of	the supplier of the s	afety data sheet
Manufacti	urer/ Supplier	: Schülke & Mayr GmbH Robert-Koch-Str. 2
		22851 Norderstedt
		Germany
		Telephone: +49 (0)40/ 52100-0
		Telefax: +49 (0)40/ 52100318 mail@schuelke.com
		www.schuelke.com
E-mail ad	dress of person	: Application Department
responsib	le for the	+49 (0)40/ 521 00 8800
SDS/Con	tact person	ADHI@schuelke.com
		(Schülke & Mayr UK Ltd.: +44-1142543500)
1.4 Emergenc	y telephone number	
-		LIK Deisene Emergeneur number: 0070 000 0000

Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266 ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H226 H319	Flammable liquid and vapour. Causes serious eye irritation.
Precautionary statements	:	P102	Keep out of reach of children.

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		P21	0	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P30	5+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P33	7+P313	If eye irritation persists: Get medical advice/ attention.
		P50	1	Dispose of contents/ container to an ap- proved waste disposal plant.
Special mixtures	labelling of certain		lling accordin	g to Regulation (EC) No. 648/2004: (< 5 % s)
Further i	nformation		biocides safel on before use	y. Always read the label and product infor-

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients of the active solution

3.2 Mixtures

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Propan-2-ol	603-117-00-0 67-63-0 200-661-7 01-2119457558-25- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	17,4
Ethanol	603-002-00-5 64-17-5 200-578-6 01-2119457610-43- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	12,6

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled In case of skin contact	 Move the victim to fresh air and keep him calm. If symptoms persist, call a physician. Wash with water and soap as a precaution. If skin irritation persists, call a physician.

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 diately with plenty of water, also under the eyelids, for at lea 15 minutes. If eye irritation persists, consult a specialist. If swallowed : If accidentally swallowed obtain immediate medical attention 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Treat symptomatically., 4.3 Indication of any immediate medical attention and special treatment needed Treatment : For specialist advice physicians should contact the Poisons Information Service. SECTION 5: Firefighting measures 5.1 Extinguishing media 	Version	Revision Date:	Date of last issue: 24.02.2016
diately with plenty of water, also under the eyelids, for at let If swallowed : If accidentally swallowed obtain immediate medical attentio 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Treat symptomatically 4.3 Indication of any immediate medical attention and special treatment needed Treatment : For specialist advice physicians should contact the Poisons Information Service. SECTION 5: Firefighting measures 5.1 Extinguishing media : Dry powder, Alcohol-resistant foam, Carbon dioxide (CO2), Water spray jet Unsuitable extinguishing media : Dry powder, Alcohol-resistant foam, Carbon dioxide (CO2), Water spray jet 5.2 Special hazards arising from the substance or mixture Specific hazards during fire- its combustion product itself, its combustion product itself, Specific risk from the sub- stance or the product itself, its combustion products or evolved gases : No special risks known. 5.3 Advice for firefighters : In the event of fire, wear self-contained breathing apparatus for firefighters SECTION 6: Accidental release measures : Remove all sources of ignition. Avoid contact with eyes. 6.1 Personal precautions Environmental precautions : No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Use mechanical handling equipment.	02.00	02.06.2017	Date of first issue: 19.10.2015
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Treatment : For specialist advice physicians should contact the Poisons Information Service. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing media Suitable extinguishing media Suitable extinguishing media Special hazards arising from the substance or mixture Specific hazards arising from the substance or mixture Specific risk from the sub- : Cool closed containers exposed to fire with water spray. fighting Specific risk from the sub- : No special risks known. stance or the product itself, its combustion products or evolved gases : In the event of fire, wear self-contained breathing apparatus for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters StectTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Personal precautions : Remove all sources of ignition. Avoid contact with eyes. 6.2 Environmental precautions : No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage	-		
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Special protective equipment is in the event of fire, wear self-contained breathing apparatus for firefighters SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions is Remove all sources of ignition. Avoid contact with eyes. 6.2 Environmental precautions Environmental precautions is No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up is Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage	5.3 Advice for fir	efighters	
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Personal precautions : Remove all sources of ignition. Avoid contact with eyes. 6.2 Environmental precautions : No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 : SECTION 7: Handling and storage	SECTION 6: Ac	cidental releas	e measures
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Environmental precautions : No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage	-	-	
Environmental precautions : No special environmental precautions required. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage	6.2 Environment	al precautions	
Methods for cleaning up : Use mechanical handling equipment. 6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage		-	: No special environmental precautions required.
6.4 Reference to other sections see Section 8 + 13 SECTION 7: Handling and storage	6.3 Methods and	I material for con	tainment and cleaning up
see Section 8 + 13 SECTION 7: Handling and storage	Methods for	cleaning up	: Use mechanical handling equipment.
7.1 Precautions for safe handling	SECTION 7: Ha	Indling and stor	rage
	7.1 Precautions	for safe handling	
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Advice of	n safe handling	: Wea latio	r personal protective equipment. Ensure adequate venti- n.
Advice of fire and e	n protection against explosion	: Keep	o away from sources of ignition - No smoking.
Hygiene	measures	: Keep	o away from food and drink.
7.2 Condition	s for safe storage,	including	any incompatibilities
•	nents for storage d containers	: Stor	e at room temperature in the original container.
age conc	nformation on stor- litions n common storage	Rec	o container tightly closed. Keep away from direct sunlight. commended storage temperature: 15 - 25°C not store together with oxidising agents.
7.3 Specific e	end use(s)		

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7.3 Specific end use(s)

Specific use(s)	: n	one

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	Permissible ex- posure limit	500 ppm 960 mg/m3	TRGS 900
		Ceiling Limit Val- ue	1.000 ppm 1.920 mg/m3	TRGS 900
		Permissible ex- posure limit	1.000 ppm 1.900 mg/m3	OSHA
Propan-2-ol	67-63-0	Permissible ex- posure limit	200 ppm 500 mg/m3	TRGS 900
		Ceiling Limit Val- ue	400 ppm 1.000 mg/m3	TRGS 900
		Permissible ex- posure limit	400 ppm 980 mg/m3	OSHA

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m3
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m3
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name

Environmental Compartment

Value

according to Regulation (EC) No. 1907/2006

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Propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140,9 mg/l
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food
Ethanol	Fresh water	0,96 mg/l
	Marine water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg

8.2 Exposure controls

Personal protective equipme	nt	
Eye protection	:	If splashes are likely to occur, wear: Goggles
Hand protection	:	Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 Min., layer thickness: 0.40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0.70 mm) made by KCL or gloves from other manufacturers offering the same protec- tion.
Protective measures	:	Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties of the active solution

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Odour Threshold	: not determined
рН	: 3-3,6
Melting point/freezing point	: <-5 °C
Decomposition temperature	: No data available
Boiling point/boiling range	: ca. 80 °C
Flash point	: 26 °C, DIN 51755 Part 1
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: Propan-2-ol: 12 %(V)
Lower explosion limit	: Propan-2-ol: 2 %(V)
Vapour pressure	: ca. 40 hPa, 20 °C
Relative vapour density	: No data available
Density	: ca. 0,95 g/cm3
Solubility(ies)	
Water solubility	: in all proportions , 20 °C

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	Not a sufficient to
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: Propan-2-ol: 425 °C
Viscosity	. 110pan-2-01. 420 C
Viscosity, dynamic	: not determined
Explosive properties	: No data available
Oxidizing properties	: Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

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No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

None reasonably foreseeable.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong acids and oxidizing agents,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information of the active solution

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity Acute inhalation toxicity	:	Acute toxicity estimate: > 15.000 mg/kg Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity	:	Acute toxicity estimate: > 10.000 mg/kg

Skin corrosion/irritation

Product:

Calculation method, No skin irritation

Serious eye damage/eye irritation

Product:

Causes serious eye irritation., Calculation method

Respiratory or skin sensitisation

Components:

Propan-2-ol:

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Did not cause sensitisation	on laboratory animals.Buehler Test, Guinea pig
	on laboratory animals.Maximisation Test, Guinea pig
Germ cell mutagenicity	
Components:	
Propan-2-ol:	
Genotoxicity in vitro	 Ames test, Mutagenicity (Escherichia coli - reverse mutatio assay), not mutagenic
Genotoxicity in vivo Germ cell mutagenicity- As- sessment	: Mouse, Mutagenicity (micronucleus test), not mutagenic
Ethanol: Genotoxicity in vitro	: OECD Test Guideline 471, Not mutagenic in Ames Test
Genotoxicity in vivo Germ cell mutagenicity- As- sessment	 not mutagenic Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity	
Components:	
Propan-2-ol:	
Carcinogenicity - Assess- ment Ethanol:	: Based on available data, the classification criteria are not n
Carcinogenicity - Assess- ment	: Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	
Components:	
Propan-2-ol:	
Reproductive toxicity - As- sessment Ethanol:	: Based on available data, the classification criteria are not n
Effects on foetal develop- ment	: Rat, Oral, NOAEL: 2.000 mg/kg
Reproductive toxicity - As- sessment	: In animal testing, risk of impaired fertility was shown only a administration of very high doses of this substance.
STOT - single exposure	
Components:	
Propan-2-ol: May cause drowsiness or di Ethanol:	zziness.
No data available	
STOT - repeated exposure	
Components: Propan-2-ol:	e classification criteria are not met.

Repeated dose toxicity

Components:

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Ethanol:

Rat, NOAEL: 1.730 mg/kg, LOAEL: 3.160 mg/kg, Oral90 d

Aspiration toxicity

No data available

Further information

Product:

The product has not been tested.

SECTION 12: Ecological information of the active solution

12.1 Toxicity

Components:
oomponomo.
Dropon 2 ali

- PI	ropan-2-oi:		
Тс	oxicity to fish	:	LC50 (Leuciscus idus): > 100 mg/l, 48 h, static test, Raw ma- terial, literature value
ac	oxicity to daphnia and other quatic invertebrates		EC50 (Daphnia magna): > 100 mg/l, 48 h, static test, Raw material, literature value
	oxicity to algae	•	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l, 72 h, static test, Raw material, literature value
Et	hanol:		
Тс	oxicity to fish		LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l, 48 h
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 5.000 mg/l, 48 h
Тс	oxicity to algae	:	IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l, 72 h

12.2 Persistence and degradability

Components:

Propan-2-ol:		
Biodegradability	:	Readily biodegradable.
Ethanol:		
Biodegradability	:	Readily biodegradable.

12.3 Bioaccumulative potential

Components:

Propan-2-ol:	
Bioaccumulation	: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n- octanol/water Ethanol:	: log Pow: 0,05 (20 °C), OECD Test Guideline 107
Bioaccumulation	: Bioaccumulation is unlikely.
Partition coefficient: n- octanol/water	: log Pow: -0,14, calculated

12.4 Mobility in soil

Components:	
Propan-2-ol:	
Mobility	: Mobile in soils
Ethanol:	
Mobility	: No data available

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12.5 Results o	of PBT and vPvB as	ssessment			
Product:					
Assessme	ent	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6 Other adv	erse effects				
Product: Additional mation	ecological infor-	: none			
SECTION 13	Disposal consid	derations			
13.1 Waste tre	atment methods				
Product		: Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.			
Contamina	ated packaging	: Take empty packaging to the recycling plant.			
SECTION 14	Transport infor	mation			
14.1 UN numb	er				
IMDG		: UN 3175			
ΙΑΤΑ		: UN 3175			
14.2 UN prope	r shipping name				
IMDG		: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Ethanol)			
ΙΑΤΑ		: Solids containing flammable liquid, n.o.s. (Propan-2-ol, Ethanol)			
14.3 Transpor	t hazard class(es)				
IMDG		: 4.1			
ΙΑΤΑ		: 4.1			
14.4 Packing	group				
IMDG					
Packing g	roup	:			
Labels EmS Code	Э	: 4.1 : F-A, S-I			
ΙΑΤΑ					
aircraft)	struction (cargo	: 448 : II			
Packing g Labels	ioup	: II : Flammable Solid			
14.5 Environm	ental hazards				

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Marine pollutant : no

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Sul Concern for Authorisation (Arti	: Not applicable			
Regulation (EC) No 850/2004 (lutants	on	persistent organic pol-	: Not applicable	
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major- accident hazards involving dangerous substances.	:		Quantity 1	Quantity 2
P5c		FLAMMABLE LIQUIDS	5.000 t	50.000 t
Volatile organic compounds	:	Volatile organic compou tive solution, Directive 20 sions of volatile organic	010/75/EC on the limit	
Other regulations	:	The surfactant(s) contain with the biodegradability (EC) No.648/2004 on de- tion are held at the dispo- Member States and will direct request or at the re Take note of Directive 98 health and safety of work agents at work.Take note a first list of indicative oc- ues.Regulation (EU) No and of the Council of 22 available on the market a	criteria as laid down in etergents. Data to supposal of the competent a be made available to t equest of a detergent 8/24/EC on the protect kers from the risks related of Directive 2000/39, coupational exposure lit 528/2012 of the Europ May 2012 concerning	n Regulation bort this asser- authorities of the them, at their manufacturer. tion of the ated to chemical /EC establishing imit val- pean Parliament the making

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

Full text of H-Statements

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

Full text of other abbreviations

according to Regulation (EC) No. 1907/2006

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Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
STOT SE	:	Specific target organ toxicity - single exposure

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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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Flam. Liq. 3, H226	:	On basis of test data.
Eye Irrit. 2, H319	:	Calculation method

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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