

Substance number: R-GTA103

Version: 1 / GB Replaces Version: - / GB Date revised: 03.09.2021 Print date: 03.09.2021

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

1.1. Product identifier

BladeCool 2.0 Registration no. UFI 2U80-90UX-K001-YRSY Substance / product identification PR-No. GTA103

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

Use of the substance/preparation

Cleaners

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Albert Kerbl GmbH Felizenzell 9 84428 Buchbach Telephone no. +49 8086 933-100 Fax no. +49 8086 933-500 Information provided by / telephone E-mail address of person responsible for this SDS

1.4. Emergency telephone number

Joint poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia c/o HELIOS Klinikum Erfurt Nordhäuser Strasse 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17 E-Mail: ggiz@ggiz-erfurt.de - Internet: www.ggiz-erfurt.de

For England (NHS 111) call: 111 For Scotland (NHS24) call: 111 For Wales (NHS Direct) call: 111 When it's less urgent than: 999 For Northern Irland call: GP Out-of-Hours (wwwgpoutofhours.hscni.net)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008) Aerosol 1 H222 H229 Skin Irrit. 2 H315 Eye Irrit. 2 H319

STOT SE 3

Aquatic Chronic 3 H412 The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

H336



Substance number: R-GTA103

Version: 1/GB Replaces Version: - / GB Date revised: 03.09.2021 Print date: 03.09.2021

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

F

Danger Hazard statements

1222	Extremely flammable aerosol.
1229	Pressurized container: may burst if heated.
1315	Causes skin irritation.
1319	Causes serious eye irritation.
1336	May cause drowsiness or dizziness.
1412	Harmful to aquatic life with long lasting effects.
cautionary stat	ements

Precautionary statements

· · · · · · · · · · · · · · · · · · ·	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Hazardous compo	onent(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Propan-2-ol; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% ncontains hexane

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Pro	pan-	2-01
110	pan-	2-01

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-21194575	558-25			
Concentration	>=	10	<	20	%
Classification (Regulat	ion (EC) No. 1	272/2008)			
	Flam. Liq. 2		H225		
	Eye Irrit. 2		H319		
	STOT SE 3		H336		

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

EINECS no.	921-024-6				
Registration no.	01-2119475	514-35			
Concentration	>=	2,5	<	10	%
Classification (Regulat	tion (EC) No.	1272/2008)			
· -	Flam. Liq. 2		H225		
	•				



Trade name: BladeCool 2.0							
·····		Version:	1 / GB			Date revised:	03.09.2021
Substance number: R-GTA103		Replaces	s Versio	n: -/GB		Print date:	03.09.2021
	Skin Irrit. 2		H315				
	STOT SE 3		H336				
	Asp. Tox. 1		H304				
	Aquatic Chronic	2	H411				
Further ingredients							
Butane							
CAS No.	106-97-8						
EINECS no.	203-448-7						
Registration no.	01-2119474691-	-32					
Concentration			>=	50	%		
Advice: [3]		~ (~ ~ ~ ~ ~ ~ ~ ~ ~					
Classification (Regulat		2/2008)	11000				
	Flam. Gas 1		H220				
	Press. Gas		H280				
Additional remarks:							
CLP	Regulation (EC)	No 1272	/2008. /	Annex VI. N	ote C. U		
DSD	Directive 67/548				,		
Propane							
CAS No.	74-98-6						
EINECS no.	200-827-9						
Registration no.	01-2119486944-	-21					
Concentration	>= 25	5	<	50	%		
Advice: [3]							
Classification (Regulat		2/2008)					
	Flam. Gas 1		H220				
	Press. Gas		H280				
Additional remarks:							
CLP	Regulation (EC)	No 1272	/2008, /	Annex VI, N	ote U		
Noto	,						

Note

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. Summon a doctor immediately.

After skin contact

Take off contaminated clothing. Wash contaminated clothing before reuse. After contact with skin, wash immediately with plenty of water. Wash skin with plenty of soap and water. Consult a doctor if skin irritation persists.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion



Version: 1 / GBDate revised: 03.09.2021Substance number: R-GTA103Replaces Version: - / GBPrint date: 03.09.2021

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately. Do not induce vomiting - aspiration hazard.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

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

Hints for the physician / hazards

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Flammable aerosol. CAUTION: Aerosol cans can explode. May form explosive gas-air mixtures. In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothing. Use personal protective clothing.

6.2. Environmental precautions

Do not allow uncontrolled release of product into the environment. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not breathe gas/fumes/vapour/spray. Do not pierce or burn, even after use.



Trade name: BladeCool 2.0

Substance number: R-GTA103

Version: 1 / GB Replaces Version: - / GB Date revised: 03.09.2021

Print date: 03.09.2021

Advice on protection against fire and explosion

Do not spray against a flame or on a glowing object. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep out of reach of persons not familiar with the operation or the subject. Storage rooms must be properly ventilated. Store in cool, well ventilated area. Protect from heat. Protect against direct sunlight.

Hints on storage assembly

Do not store together with: Oxidising agents, Pyrophoric substances, self-heating hazardous substances, Do not store together with foodstuffs. Do not store together with animal feedstocks.

Aerosol dispensers

Storage classes

Storage class according to TRGS 510 2B

7.3. Specific end use(s)

Aerosol

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Hydrocarbons, C6-C7, n-alkanes List	TRGS 900	
Туре	AGW	
RCP-Gruppe C6-8 Aliphaten Value Maximum limit value: 2(II)	700	mg/m³
Biological limit values		
Propan-2-ol		
List	BGW (DE)	-
Value	25	mg/l
Parameter	Acetone	
Testing material	Whole blo	
Test date		posure or end of shift.
Source	TRGS 903	3
Propan-2-ol		
List	BGW (DE))
Value	25	mg/l
Parameter	Acetone	
Testing material	Urine (U)	
Test date	End of exp	oosure or end of shift.
Source	TRGS 903	3
Other information		
There are not known any further	control par	ameters.
Derived No/Minimal Effect Lev	els (DNEl	_/DMEL)
Hydrocarbons, C6-C7, n-alkanes Type of value Reference group Duration of exposure Route of exposure		es, cyclenes, <5% n-hexane o Effect Level (DNEL)



Trade name: BladeCool 2.0		
	Version: 1 / GB	Date revised: 03.09.202
Substance number: R-GTA103	Replaces Version: - / GB	Print date: 03.09.202
Mode of action	Systemic effects	
Concentration	773	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2035	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	699	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	608	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	699	mg/kg/d
Propan-2-ol		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Professional	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	500	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Professional	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	888	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	319	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	



Trade name: BladeCool 2.0		
	Version: 1 / GB	Date revised: 03.09.2021
Substance number: R-GTA103	Replaces Version: - / GB	Print date: 03.09.2021
Mode of action	Systemic effects	
Concentration	26	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	89	mg/m³
Predicted No Effect Conce Propan-2-ol Type of value Type Concentration	entration (PNEC) PNEC Water (intermittent release) 140,9	mg/l
Type of value	PNEC	
Туре	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Туре	Freshwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Туре	Soil	
Concentration	28	mg/kg/d

8.2. Exposure controls

General protective and hygiene measures

Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Council Directive 89/686/EEC and the resulting CEN standards. At work do not eat, drink, smoke or take drugs. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Normally not necessary.

Hand protection

Chemical resistant gloves

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Hand protection must comply	y with EN 374.
Appropriate Material	nitrile

Appropriate material	munic		
Material thickness		0,4	mm
Breakthrough time	>=	240	min

Eye protection

Eye protection must comply with EN 166. Safety goggles

Body protection

antistatic boots; light protective clothing, anti-static

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



Trade name: BladeCool 2.0				
	Version: 1			Date revised: 03.09.2021
Substance number: R-GTA103	Replaces	Version: -/GB		Print date: 03.09.2021
Form	liquid			
Colour	colourless			
Odour	Alcohol			
Odour threshold				
Remarks	not determined			
pH value				
Remarks	Not relevant			
Melting point				
Remarks	not determined			
Freezing point				
Remarks	not determined			
Initial boiling point and boilir	ng range			
Value	< -20		°C	
Flash point				
Value	< -20		°C	
Evaporation rate (ether = 1) :				
Remarks	not determined			
Flammability (solid, gas)				
Not applicable				
Upper/lower flammability or	explosive limits			
Lower explosion limit	1,5		%(V)	
Upper explosion limit	10,9		%(V)	
Vapour pressure				
Remarks	not determined			
Vapour density				
Value	0,58		g/cm ³	
Temperature	20	°C	-	
Density				
Remarks	not determined			
Solubility in water				
Remarks	virtually insoluble	e		
Solubility(ies)				
Remarks	not determined			
Partition coefficient: n-octan	ol/water			
Reference substance	Propan-2-ol			
log Pow	0,05			
Reference substance log Pow	Butane 1,09			
Reference substance	Propane			
log Pow	1,09			
Ignition temperature				
Value	> 350		°C	
Auto-ignition temperature				
Remarks	Not applicable			
Decomposition temperature				
Remarks	not determined			



Trade name: BladeCool 2.0		
	Version: 1 / GB	Date revised: 03.09.2021
Substance number: R-GTA103	Replaces Version: - / GB	Print date: 03.09.2021
Remarks	not determined	
Explosive properties		
evaluation	not determined	
Oxidising properties		
Remarks	not determined	
9.2. Other information		
Other information		
None known		
SECTION 10: Stability an	d reactivity	
10.1. Reactivity Extremely flammable aerose	ol. Container is under pressure: may b	purst when heated.
10.2. Chemical stability Stable under normal conditi	ons.	
10.3. Possibility of hazardou No hazardous reactions kno		
10.4. Conditions to avoid Vapours can form an explose	ive mixture with air. Keep away from:	Flames and sparks. Hot surfaces.
10.5. Incompatible materials None known		
10.6. Hazardous decomposi No data available.	tion products	
SECTION 11: Toxicologic	al information	
11.1. Information on toxicolo	ogical effects	
Acute oral toxicity	5	
Remarks	not determined	
Acute oral toxicity (Compo	onents)	
Hydrocarbons, C6-C7, n-alk	anes, isoalkanes, cyclenes, <5% n-	hexane
LD50	> 5000	mg/kg
Propan-2-ol Species	Rats (male/female)	
LD50	5840	mg/kg
Acute dermal toxicity		
Remarks	not determined	
Acute dermal toxicity (Cor	nponents)	
Propan-2-ol		
Species LD50	rabbit 13900	mg/kg
	anes, isoalkanes, cyclenes, <5% n- > 2800 to 3100	
Acute inhalational toxicity		5 * 5
Remarks	not determined	
Acute inhalative toxicity (Components)	
Hydrocarbons, C6-C7, n-alk	anes, isoalkanes, cyclenes, <5% n-	hexane



	Version: 1 / GB	Date revised: 03.09.202
ubstance number: R-GTA103	Replaces Version: - / GB	Print date: 03.09.20
LC50	> 25,2 mg/l	
Administration/Form	Vapors	
Skin corrosion/irritation		
evaluation	irritant	
Serious eye damage/irrit		
evaluation	strongly irritant	
Sensitization		
Remarks	Based on available data, the classification c	riteria are not met
Subacute, subchronic, cl		
Remarks	May cause drowsiness and dizziness.	
Mutagenicity Remarks	not determined	
	not determined	
Reproductive toxicity Remarks	not determined	
	not determined	
Carcinogenicity		
Remarks	not determined	
Specific Target Organ To		
Remarks	Based on available data, the classification c	riteria are not met.
Experience in practice		
Inhalation may lead to irrit	ation of the respiratory tract.	
Other information No toxicological data are a		
No toxicological data are a		
No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined	<u>I information</u>	
No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component	<u>l information</u> ts)	
No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component	<u>I information</u>	
No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component Hydrocarbons, C6-C7, n-a Species LC50	<u>I information</u> ts) Ikanes, isoalkanes, cyclenes, <5% n-hexane rainbow trout (Oncorhynchus mykiss) 11,4 mg/l	
No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component Hydrocarbons, C6-C7, n-a Species LC50 Duration of exposure Method	<u>I information</u> ts) Ikanes, isoalkanes, cyclenes, <5% n-hexane rainbow trout (Oncorhynchus mykiss)	
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No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component Hydrocarbons, C6-C7, n-a Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure	ts) Ikanes, isoalkanes, cyclenes, <5% n-hexane rainbow trout (Oncorhynchus mykiss) 11,4 mg/l 96 h OECD 203 Fish 10000 mg/l 96 h	
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No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component Hydrocarbons, C6-C7, n-a Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure Daphnia toxicity (Compo Propan-2-ol Species	L information ts) Ikanes, isoalkanes, cyclenes, <5% n-hexane rainbow trout (Oncorhynchus mykiss) 11,4 mg/l 96 h OECD 203 Fish 10000 mg/l 96 h onents) Daphnia pulex	
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No toxicological data are a ECTION 12: Ecological 12.1. Toxicity General information not determined Fish toxicity (Component Hydrocarbons, C6-C7, n-a Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure Daphnia toxicity (Compo Propan-2-ol Species LC50 Duration of exposure Hydrocarbons, C6-C7, n-a Species	Linformation ts) Ikanes, isoalkanes, cyclenes, <5% n-hexane rainbow trout (Oncorhynchus mykiss) 11,4 mg/l 96 h 11,4 mg/l 96 h OECD 203 Fish 10000 mg/l 96 h Daphnia pulex > 10000 mg/l 24 h Daphnia pulex 24 h Ikanes, isoalkanes, cyclenes, <5% n-hexane Daphnia magna	

Safety data sheet in accordance v	with regulation (EC	5) No 1907/2006	č KEI	KBL	
Trade name: BladeCool 2.0					
	Versio	n: 1/GB	Date revised	: 03.09.202	
Substance number: R-GTA103	Replaces Version: - / GB		B Print date	Print date: 03.09.202	
		-			
Hydrocarbons, C6-C7, n-al Species	Pseudokirchner		n-nexane		
ErC50	10	to 30	mg/l		
Duration of exposure	72	h	-		
Method	OECD 201				
Propan-2-ol Species	Scenedesmus s	ubenicatue			
ErC50	> 100	ubspicatus	mg/l		
Duration of exposure	72	h			
12.2. Persistence and degra	adability				
General information	······				
not determined					
Biodegradability					
Reference substance	Propan-2-ol				
Value	95		%		
Duration of test	21	d			
Remarks Reference substance	I he product is re Hydrocarbons	eadily biodegrada	ble according to OECD criteria. isoalkanes, cyclenes, <5% n-he	vana	
Value	98		%	Ane	
Duration of test	28	d			
Remarks	The product is r	eadily biodegrada	ble according to OECD criteria.		
12.3. Bioaccumulative pote	ntial				
General information					
not determined					
Partition coefficient: n-oc	tanol/water				
Reference substance	Propan-2-ol				
log Pow	0,05				
Reference substance log Pow	Butane 1,09				
Reference substance	Propane				
log Pow	1,09				
12.4. Mobility in soil					
General information					
not determined					
12.5. Results of PBT and vF	WR assessmen	.+			
General information		it.			
not determined					
12.6. Other adverse effects					
General information					
not determined					
General information / eco	•••				
Do not allow to enter soil, v	vaterways or waste	water canal. Avo	id release into the atmosphere.		
SECTION 13: Disposal c	onsideration	<u>s</u>			
13.1. Waste treatment meth	ods				
Disposal recommendation		ct			
Do not allow to enter drain	-				



Trade name: BladeCool 2.0

Version: 1 / GB

Date revised: 03.09.2021

Substance number: R-GTA103

Replaces Version: - / GB

Print date: 03.09.2021

Do not allow to enter waters.

Do not discharge into the subsoil/soil.

Dispose of waste according to applicable legislation.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company. EWC waste code 16 05 04* gases in pressure containers (including halons) containing the term of the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

16 05 04* gases in pressure containers (including halons) containing dangerous substances

Disposal recommendations for packaging

Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D		
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2	2.1	2.1
Label	8	8	8
Limited Quantity	11		
Transport category	2		
14.5. Environmental hazards	-		-

Information for all modes of transport

14.6. Special precautions for user none

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

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

Major-accident categories acc. 2012/18/EU

Category P3a FLAMMABLE AEROSOLS

VOC

VOC (CH)

99,6 %



Substance number: R-GTA103

Replaces Version: - / GB

Version: 1/GB

%

Date revised: 03.09.2021 Print date: 03.09.2021

VOC (EU)

99,6

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

The classification was carried out according to the calculation method of Regulation (EC) No. 1272/2008 (CLP Regulation).

Hazard statements listed in Chapter 3

H225Highly flammable liquid and vapour.H304May be fatal if swallowed and enters airways.H315Causes skin irritation.H319Causes serious eye irritation.H336May cause drowsiness or dizziness.H411Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Hazardous to the aquatic environment, chronic, Category 2 Aspiration hazard, Category 1
Eye irritation, Category 2
Flammable liquid, Category 2
Skin irritation, Category 2
Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.