

Revision nr.6 Dated 18/03/2022 Printed on 04/05/2022 Page n. 1 / 12 Replaced revision:5 (Dated 21/02/2022)

FA0178 - Jamaica Special flavour

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

.1. Product identifier						
Code:		FA0178				
Product name		Jamaica Spe	cial flavour			
2. Relevant identified use	s of the substance or n	nixture and use	es advised against			
Intended use		Flavour				
Identified Uses		Industrial	Prof	essional	Consumer	
Food / Electronic smoke		\checkmark	\checkmark		\checkmark	
3. Details of the supplier of	of the safety data sheet	t				
Name		FLAVOURAF	RT SRL			
Full address		Via Delle Ind				
District and Country		28047	Oleggio	(NO)		
		Tel.	Italia +39 0321 960553			
		Fax	+39 0321 204549			
e-mail address of the com						
responsible for the Safety	Data Sheet	supporto@fl	avourart.it			
4. Emergency telephone r	number					
For urgent inquiries refer t	0	+39 0321 960)553			
		NHS 111				
I. Classification of the su	bstance or mixture s hazardous pursuant to					
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SECTION 2. Hazards identification ... / >>

P501 P102 Dispose of contents / container in accordance with local regulations. Keep out of reach of children.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

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Contains:
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Identification	x = Conc	% Classif	ication (EC) 1272/2008 (CLP)
Ethyl Acetate			
CAS	141-78-6	1,79 ≤ x < 1,84	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4		
INDEX	607-022-00-5		
REACH Reg.)	
Ethyl Propion		4 70 4 4 04	
CAS	105-37-3	1,79 ≤ x < 1,84	Flam. Liq. 2 H225
EC	203-291-4		
	607-028-00-8 01-2120763024-62		
REACH Reg. Vanillin	01-2120703024-02	->>>	
CAS	121-33-5	0,97 ≤ x < 1,01	Eye Irrit. 2 H319
EC	204-465-2	0,57 = X < 1,01	Eye init. 2 11313
INDEX	207-703-2		
REACH Reg.	01-2119516040-60)-XXXX	
Acetic Acid	01 2110010010 00		
CAS	64-19-7	0,23 ≤ x < 0,28	Flam. Liq. 3 H226, Acute Tox. 4 H312, Skin Corr. 1A H314, Eye Dam. 1 H318
EC	200-580-7	-,	LD50 Dermal: 1060 mg/kg
INDEX	607-002-00-6		······································
REACH Reg.	01-2119475328-30)-XXXX	
Butyl acetate			
CAS	123-86-4	0,03 ≤ x < 0,08	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		• • •
INDEX	607-025-00-1		
REACH Reg.	01-2120800352-71	-XXXX	
Butanone			
CAS	78-93-3	0 ≤ x < 0,04	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-159-0		
INDEX	606-002-00-3		
REACH Reg.	01-2119457290-43	3-XXXX	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.



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SECTION 4. First aid measures ... / >>

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities



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SECTION 7. Handling and storage ... / >>

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

				Bu	itanone	
Threshold Limit	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	600	200	600	200	
VLA	ESP	600	200	900	300	
VLEP	FRA	600	200	900	300	
VLEP	ITA	600	200	900	300	
NDS/NDSCh	POL	450		900		
ESD	TUR	600	200	900	300	
WEL	GBR	600	200	899	300	
OEL	EU	600	200	900	300	

Acetic Acid						
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	25	10	50	20	
VLA	ESP	25	10	50	20	
VLEP	FRA	25	10	50	20	
NDS/NDSCh	POL	25		50		
WEL	GBR	25	10	50	20	
OEL	EU	25	10	50	20	

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SECTION 8. Exposure controls/personal protection .../>>

Ethyl Acetate							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	730	200	1460	400		
VLA	ESP	734	200	1460	400		
VLEP	FRA	734	200	1468	400		
NDS/NDSCh	POL	734		1468			
WEL	GBR	730	200	1460	400		
OEL	EU	734	200	1468	400		

Butyl acetate

Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	724	150	965	200		
VLEP	FRA	710	150	940	200		
NDS/NDSCh	POL	240		720			
WEL	GBR	724	150	966	200		
OEL	EU	241	50	723	150		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	brown
Odour	characteristic
Melting point / freezing point	Not available
Initial boiling point	Not available
Flammability	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available

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SECTION 9. Physical and chemical properties ... / >>

Flash point Auto-ignition temperature pH
Kinematic viscosity
Solubility
Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics

31 °C Not available Not available Not available soluble in water Not available 1,043 Not available Not available Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

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SECTION 11. Toxicological information ... / >>

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

> Vanillin LD50 (Oral):

Butanone LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):

Acetic Acid LD50 (Dermal): LD50 (Oral):

Ethyl Acetate LD50 (Oral):

Butyl acetate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):

Ethyl Propionate LD50 (Oral):

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

1400 mg/kg Guinea pig

6480 mg/kg Coniglio 2193 mg/kg Ratto 32000 mg/l/4h Topo

1060 mg/kg Rat 3310 mg/kg Rat

4900 mg/kg Rabbit

> 5000 mg/kg Rabbit3200 mg/kg Rabbit9,6 mg/l/4h Rat

3500 mg/kg Rabbit

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SECTION 11. Toxicological information .../>>

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

2993 mg/l/96h Pimephales promelas (Cavedano americano)

308 mg/l/48h Daphnia magna (Pulce d'acqua grande)

1972 mg/l/72h Pseudokirchneriella subcapitata

12.1. Toxicity

Butanone LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.



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SECTION 12. Ecological information ... / >>

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1197

14.2. UN proper shipping name

ADR / RID:	EXTRACTS, FLAVOURING, LIQUID
IMDG:	EXTRACTS, FLAVOURING, LIQUID
IATA:	EXTRACTS, FLAVOURING, LIQUID

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: Ш

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 601		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special provision:	A3	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant



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ECTION 15. Regu	latory information
.1. Safety, health and er	vironmental regulations/legislation specific for the substance or mixture
Seveso Category - Direc	tive 2012/18/EU: P5c
Restrictions relating to th	e product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product	
Point	3 - 40
Contained substance	
Point	75
	48 - on the marketing and use of explosives precursors
Not applicable	
Substances in Candidate	List (Art. 59 REACH)
	data, the product does not contain any SVHC in percentage \geq than 0,1%.
Cubatanana subiaatta a	
None	thorisation (Annex XIV REACH)
	portation reporting pursuant to Regulation (EU) 649/2012:
None	
Substances subject to th	e Rotterdam Convention:
None	
Substances subject to th	a Stackholm Convention
None	
Healthcare controls	
Healthcare controls Information not available	
Information not available	
Information not available	e classification of substances hazardous to water (AwSV, vom 18. April 2017)
Information not available German regulation on th WGK 1: Low hazard to w	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters
Information not available German regulation on th WGK 1: Low hazard to w	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters
Information not available German regulation on th WGK 1: Low hazard to w .2. Chemical safety asse	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters
Information not available German regulation on th WGK 1: Low hazard to w 5.2. Chemical safety assess A chemical safety assess	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters assment ament has not been performed for the preparation/for the substances indicated in section 3.
Information not available German regulation on th WGK 1: Low hazard to w 5.2. Chemical safety assess A chemical safety assess	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters assment ament has not been performed for the preparation/for the substances indicated in section 3.
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters assment ament has not been performed for the preparation/for the substances indicated in section 3.
Information not available German regulation on th WGK 1: Low hazard to w .2. Chemical safety assess A chemical safety assess ECTION 16. Other Text of hazard (H) indica	e classification of substances hazardous to water (AwSV, vom 18. April 2017) raters conserved comment has not been performed for the preparation/for the substances indicated in section 3. The information tions mentioned in section 2-3 of the sheet:
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other	e classification of substances hazardous to water (AwSV, vom 18. April 2017) raters essment ement has not been performed for the preparation/for the substances indicated in section 3.
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4	e classification of substances hazardous to water (AwSV, vom 18. April 2017) Taters essment ement has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters essment ment has not been performed for the preparation/for the substances indicated in section 3. information tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin corrosion, category 1A
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2	e classification of substances hazardous to water (AwSV, vom 18. April 2017) raters essment ment has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin corrosion, category 1A Eye irritation, category 2
Information not available German regulation on th WGK 1: Low hazard to w .2. Chemical safety assess A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2 STOT SE 3	e classification of substances hazardous to water (AwSV, vom 18. April 2017) raters essment ment has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin corrosion, category 1A Eye irritation, category 2 Specific target organ toxicity - single exposure, category 3
Information not available German regulation on th WGK 1: Low hazard to w 3.2. Chemical safety assess A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2 STOT SE 3 H225	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters essment ement has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin corrosion, category 1A Eye irritation, category 2 Specific target organ toxicity - single exposure, category 3 Highly flammable liquid and vapour.
Information not available German regulation on th WGK 1: Low hazard to w 2. Chemical safety asses A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2 STOT SE 3	e classification of substances hazardous to water (AwSV, vom 18. April 2017) raters essment ment has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 4 Skin corrosion, category 1A Eye irritation, category 2 Specific target organ toxicity - single exposure, category 3
German regulation on th WGK 1: Low hazard to w 5.2. Chemical safety assess A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2 STOT SE 3 H225 H226 H312 H314	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters essment ement has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin corrosion, category 1A Eye irritation, category 2 Specific target organ toxicity - single exposure, category 3 Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful in contact with skin. Causes severe skin burns and eye damage.
German regulation on the WGK 1: Low hazard to w G.2. Chemical safety assess A chemical safety assess ECTION 16. Other Text of hazard (H) indica Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Corr. 1A Eye Irrit. 2 STOT SE 3 H225 H226 H312	e classification of substances hazardous to water (AwSV, vom 18. April 2017) aters essment ment has not been performed for the preparation/for the substances indicated in section 3. Tinformation tions mentioned in section 2-3 of the sheet: Flammable liquid, category 2 Flammable liquid, category 4 Skin corrosion, category 4 Skin corrosion, category 1A Eye irritation, category 2 Specific target organ toxicity - single exposure, category 3 Highly flammable liquid and vapour. Flammable liquid and vapour. Flammable liquid and vapour. Harmful in contact with skin.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)



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SECTION 16. Other information ... / >>

- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2020/1102 (XV Ap. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVI Atp. CLP)
- 21. Delegated Regulation (DE) 2021/649 (XVII Alp. CLP
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION



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SECTION 16. Other information ... / >>

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 11 / 12 / 15.