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# FA1422 - wOw flavour

# **Safety Data Sheet**

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

I. Product identifier				
Code:		FA1422		
Product name		wOw flavour		
.2. Relevant identified u	ses of the substance	or mixture and uses advi	sed against	
Intended use		Flavour		
Identified Uses		la du cánic l	Drofessional	C
Food / Electronic smo	ke	Industrial	Professional	Consumer
.3. Details of the supplie	er of the safety data s	heet		
Name Full address District and Country	-	FLAVOURART SRL Via Delle Industrie 28047 Olego Italia Tel. +39 0	26	(NO)
e-mail address of the co responsible for the Safe		supporto@flavoura		
I.4. Emergency telephon	-	_		
For urgent inquiries refe	er to	+39 0321 960553 NHS 111		
SECTION 2. Hazar	de identification	n		
2.1. Classification of the	substance or mixture	)		
However, since the proc	duct contains hazardou			08 (CLP). section no. 3, it requires a safety
Hazard classification an	d indication:			
2.2. Label elements				
Hazard labelling pursua	nt to EC Regulation 12	72/2008 (CLP) and subseq	uent amendments and supplem	ients.
Hazard pictograms:				
Signal words:				
Hazard statements:				
EUH210 EUH208	Safety data sheet a Contains: May produce an al	available on request. Methyl Cinnamate Dihydrocoumarin Furaneol Absolute of Tonka Bean lergic reaction.		
Precautionary statemen		e / containor in accordance	with local regulations	
Precautionary statemer P501 P102		s / container in accordance of children.	with local regulations.	
P501	Dispose of content		with local regulations.	
P501	Dispose of content		with local regulations.	

EN



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## SECTION 2. Hazards identification ... / >>

#### 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

Contains:

Identification	x = Conc	. % Classifi	cation (EC) 1272/2008 (CLP)
Benzyl Alcoh	ol		
CAS	100-51-6	2 ≤ x < 2,1	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319
EC	202-859-9		LD50 Oral: 1230 mg/kg, STA Inhalation vapours: 11 mg/l
INDEX	603-057-00-5		
REACH Reg.	01-2119492630-38		
Ethyl butyrate	)		
CAS	105-54-4	1,19 ≤ x < 1,24	Flam. Liq. 3 H226, Eye Irrit. 2 H319
EC	105-54-4		
INDEX			
REACH Reg.	01-2120118576-54		
Vanillin			
CAS	121-33-5	0,97 ≤ x < 1,01	Eye Irrit. 2 H319
EC	204-465-2		•
INDEX			
REACH Reg.	01-2119516040-60	-XXXX	
Absolute of T	onka Bean		
CAS		0,27 ≤ x < 0,32	Skin Sens. 1 H317
EC			
INDEX			
Furaneol			
CAS	3658-77-3	0,23 ≤ x < 0,28	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317
EC	222-908-8		LD50 Oral: 1608
INDEX			
REACH Reg.	01-2120754473-52	-XXXX	
Ethyl Acetate			
CAS	141-78-6	0,15 ≤ x < 0,2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4		
INDEX	607-022-00-5		
REACH Reg.	01-2119475103-46		
Dihydrocoum	arin		
CAS	119-84-6	0,15 ≤ x < 0,2	Acute Tox. 4 H302, Skin Sens. 1B H317
EC	204-354-9		LD50 Oral: 1460 mg/kg
INDEX			
REACH Reg.	01-2120754763-47	-XXXX	
Methyl Cinna	mate		
CAS	1754-62-7	0,07 ≤ x < 0,12	Skin Sens. 1B H317
EC	203-093-8		
INDEX			
REACH Reg.	01-2119979458-16		
Pentyl Acetat	e		
CAS	628-63-7	0 ≤ x < 0,04	Flam. Liq. 3 H226
EC	211-047-3		
INDEX			
REACH Reg.	Pre registered		
Butyl acetate			
CAS	123-86-4	0 ≤ x < 0,04	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		
INDEX	607-025-00-1		
REACH Reg.	01-2120800352-71	-XXXX	

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



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# **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.

#### 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.

#### 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.



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# **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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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.

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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.

Threshold Limit Value         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           mg/m3         ppm         mg/m3         ppm           AGW         DELL         22         5         44         10					Benzy	I Alcohol			
mg/m3 ppm mg/m3 ppm	Threshold Limit Value								
	Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations		
AGW DELL 22 5 44 10			mg/m3	ppm	mg/m3	ppm			
	AGW	DEU	22	5	44	10			
NDS/NDSCh POL 240	NDS/NDSCh	POL	240						

				Ethyl	Acetate			
Threshold Limit Value								
Туре	Country	TWA/8h	TWA/8h		min	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			



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

	Butyl acetate								
Threshold Limit Value									
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				

#### Pentyl Acetate

Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	270	50	270	50	
VLA	ESP	270	50	540	100	
VLEP	FRA	270	50	540	100	
VLEP	ITA	270	50	540	100	
NDS/NDSCh	POL	250		500		
ESD	TUR	270	50	540	100	
WEL	GBR	270	50	541	100	
OEL	EU	270	50	540	100	

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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.

EYE PROTECTION

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
Appearance
Colour
Odour
Melting point / freezing point
Initial boiling point

Value liquid colourless characteristic Not available Not available Information

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

Flammability Lower explosive limit
Upper explosive limit
Flash point
Auto-ignition temperature
рН
Kinematic viscosity
Solubility
Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics

Not available Not available 84.5 °C Not available Not available Not available soluble in water Not available Not available 1,0395 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

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### SECTION 11. Toxicological information ..../>>

Interactive effects

Information not available

#### ACUTE TOXICITY

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

> Benzyl Alcohol LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):

Vanillin LD50 (Oral):

Ethyl Acetate LD50 (Oral):

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

Pentyl Acetate LD50 (Oral):

Ethyl butyrate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

Methyl Cinnamate LD50 (Dermal): LD50 (Oral):

Dihydrocoumarin LD50 (Oral):

Furaneol LD50 (Oral):

Absolute of Tonka Bean LD50 (Dermal): LD50 (Oral):

> 20 mg/l >2000 mg/kg Not classified (no significant component)

2000 mg/kg Rabbit 1230 mg/kg Rat > 4178 mg/l/4h Rat 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

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1400 mg/kg Guinea pig

4900 mg/kg Rabbit

> 5000 mg/kg Rabbit 3200 mg/kg Rabbit 9,6 mg/l/4h Rat

6500 mg/kg Rat

> 2000 mg/kg Coniglio > 2000 mg/kg Ratto

> 7380 mg/l/1h Ratto

> 5000 mg/kg Rabbit 2610 mg/kg Rat

1460 mg/kg rat

1608 mg/kg Rat

1260 mg/kg rabbit 1380 mg/kg rat

#### 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

May produce an allergic reaction. Contains: Methyl Cinnamate Dihydrocoumarin Furaneol Absolute of Tonka Bean

Respiratory sensitization



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### SECTION 11. Toxicological information ... / >>

Information not available	
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

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.

12.1. Toxicity



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### SECTION 12. Ecological information ... / >>

Ethyl butyrate LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

> 100 mg/l/96h Brachydanio Rerio 116,2 mg/l/48h Daphnia 100 mg/l/72h Algae

Furaneol EC50 - for Crustacea

6,8 mg/l/48h

#### 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%.

#### 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. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable



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# SECTION 14. Transport information ... / >>

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

 Product
 40

 Contained substance
 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Not applicable

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention:

Healthcare controls Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Acute Tox. 4	Acute toxicity, category 4
Flam. Liq. 2	Flammable liquid, category 2

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# SECTION 16. Other information ... / >>

Highly flammable liquid and vapour. Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Safety data speet available on request
Safety data sheet available on request.

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)
- 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) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology



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### SECTION 16. Other information ... / >>

- 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

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.