

CINEMA CLUB - SALTED CARAMEL - Flavored Concentrated - CINEMA CLUB - SALTED CARAMEL

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: CINEMA CLUB - SALTED CARAMEL  
Product name: Flavored Concentrated - CINEMA CLUB - SALTED CARAMEL

Flavored concentrate - Cinema Club - Salted Caramel

This security data sheet is valid for the list of commercial names and product codes shown in the following table: List of commercial names and product codes

Salted Caramel - CC03.S60 Pla010036

It does not contain nanoform or sotanze that include nanoform

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

Intended use: Concentrated.

Relevant identified uses: Dilute before use.

Irrelevant identified uses: Not a food. Do not swallow. Do not use as it is. All those not expressly indicated as relevant.

#### 1.3. Details of the supplier of the safety data sheet

Name: L ERBORISTERIA SRL  
Full address: Via Enrico Forlanini 10  
District and Country: 00012 Guidonia Italia (Rm)  
Tel.: +39 3934560139

e-mail address of the competent person responsible for the Safety Data Sheet: info@latabaccheria.net

Supplier: Orlando D'Alessandro

#### 1.4. Emergency telephone number

For urgent inquiries refer to: For urgent information contact the Poison Center of Rome +39 06 3054343 (CAV Policlinico Gemelli - Rome)

Telephone numbers of the main Italian Poison Centers (active 24/24 hours)  
Poison Center of Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri Pavia)  
Poison Center of Milan +39 02 66101029 (CAV Niguarda Ca' Granda Milano)  
Poison center of Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)  
Poison center of Florence + 39 055 7947819 (CAV Hospital Careggi - Florence)  
Poison center of Rome +39 06 49978000 (CAV Policlinico Umberto I - Rome)

Marco Maranocav "Osp. Pediatric Child Jesus" Emergency and Acceptance Dearomapiazza Sant'Onofrio, 40016506 68593726

Anna Leporeaz. Osp. Univ. Foggiafoggia.le Luigi Pinto, 171122800183459

Romolo Villaniaz. Osp. "A. Cardarelli" Napolivia A. Cardarelli, 980131081-5453333

M. Caterina Grassicav Polyclinic "Umberto I" Romav.le del Policlinico, 1551610-49978000

Alessandro Barellicav Policlinico "A. Gemelli" Romalargo Agostino Gemelli, 816806-3054343

Francesco Gambassiaz. Osp. "Careggi" U.O. Medicaphirenzelargo Brambilla toxicology, 350134055-7947819

Carlo Locatelliv National Center for Toxicological Information Salvatore Salvatore Maugeri, 10271000382-24444

Franca Davanzoosp. Niguarda Ca 'Grandamiliapiapiazza Maggiore Hospital, 32016202-661029

BACIS GIUSEPPEAZA CASTICA HOSPITALER PAPE GIOVANNI XXIBERGAMOPAZZAZZA WHO, 124127800883300

Giorgio Ricciara Integrated Hospital Veronaveronapiazzale Aristide Stefani, 137126800011858

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**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture**

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210**

Safety data sheet available on request.

**EUH208**

Contains: BENZYL ALCOHOL  
4-Acetoxy-2,5-dimethyl-3(2H)furanone  
Methylcyclopentenolone  
Piperonal  
May produce an allergic reaction.

Precautionary statements:

**P103**

Read label before use.

**P501**

Dispose of product / container in accordance with national regulations.

**P102**

Keep out of reach of children.

**P401**

Store between 1°C and 40°C away from sunlight.

**P301+P312**

IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.

**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****3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

Identification

**x = Conc. %**

**Classification (EC) 1272/2008 (CLP)**

**Propylene Glycol USP-EP-E1520**

INDEX

$94 \leq x < 98$

EC 200-338-0

CAS 57-55-6

REACH Reg. 01-2119456809-23

**Methylcyclopentenolone**

INDEX

$0,2 \leq x < 0,25$

**Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317**

EC 212-154-8

**ATE Oral: 500 mg/kg**

CAS 765-70-8

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**SECTION 3. Composition/information on ingredients** ... / >>

<b>Piperonal</b>			
INDEX	0,2 ≤ x < 0,25	<b>Skin Sens. 1B H317</b>	
EC	204-409-7		
CAS	120-57-0		
<b>4-Acetoxy-2,5-dimethyl-3(2H)furanone</b>			
INDEX	0,2 ≤ x < 0,25	<b>Skin Sens. 1B H317, Aquatic Chronic 2 H411</b>	
EC			
CAS	4166-20-5		
<b>Furfural</b>			
INDEX	605-010-00-4	<b>Carc. 2 H351, Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 4 H312, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335</b>	
EC	202-627-7	<b>ATE Oral: 100 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l, ATE Inhalation vapours: 0,501 mg/l</b>	
CAS	98-01-1		
<b>BENZYL ALCOHOL</b>			
INDEX	603-057-00-5	<b>Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317</b>	
EC	202-859-9	<b>LD50 Oral: 1200 mg/kg</b>	
CAS	100-51-6		

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**

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**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.

## SECTION 5. Firefighting measures ... / >>

### 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

Use breathing equipment if fumes or powders are released into the air. 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

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

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
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### Predicted no-effect concentration - PNEC

Normal value in fresh water	260	mg/l
Normal value in marine water	26	mg/l
Normal value for fresh water sediment	572	mg/kg
Normal value for marine water sediment	57,2	mg/kg
Normal value for water, intermittent release	183	mg/l
Normal value of STP microorganisms	20000	mg/l
Normal value for the terrestrial compartment	50	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			10 mg/m3	50 mg/m3			10 mg/m3	168 mg/m3

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	22	5	44	10	SKIN 11
MAK	DEU	22	5	44	10	SKIN

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw yellow	
Odour	aromatic	
Melting point / freezing point	-3,2 °C	Substance:Propylene Glycol USP-EP-E1520
Initial boiling point	162 °C	Substance:Furfural
Flammability	not flammable	
Lower explosive limit	2,6 % (p/p)	Substance:Propylene Glycol USP-EP-E1520
Upper explosive limit	12,5 % (p/p)	Substance:Propylene Glycol USP-EP-E1520
Flash point	104	

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

		°C	Substance:Propylene Glycol USP-EP-E1520
			Flash point: 101 °C
Auto-ignition temperature	> 370	°C	Substance:Propylene Glycol USP-EP-E1520
Decomposition temperature	not available		
pH	7		
Kinematic viscosity	43 cst		
Solubility	soluble in water		
Partition coefficient: n-octanol/water	not available		
Vapour pressure	3,33	Pa	Substance:Furfural
			Temperature: 25 °C
Density and/or relative density	not available		
Relative vapour density	not available		
Particle characteristics	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.

Propylene Glycol USP-EP-E1520

Hygroscopic.Stable in normal conditions of use and storage.

At high temperatures it tends to oxidate to form propionaldehyde and lactic and acetic acid.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

**10.2. Chemical stability**

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

Propylene Glycol USP-EP-E1520

Maintaining a temperature of less than 40 °C.

Stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

Propylene Glycol USP-EP-E1520

May react dangerously with: acid chlorides,acid anhydrides,oxidising agents.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

BENZYL ALCOHOL

Avoid exposure to: air,sources of heat,naked flames.

**10.5. Incompatible materials**

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances,aluminium.

**10.6. Hazardous decomposition products**

Propylene Glycol USP-EP-E1520

May develop: carbon oxides.

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**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

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

## Furfural

ATE (Oral):	100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation mists/powders):	0,051 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)
ATE (Inhalation vapours):	0,501 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)

## Propylene Glycol USP-EP-E1520

LD50 (Dermal):	> 2000 mg/kg ratto
LD50 (Oral):	22000 mg/kg ratto

## BENZYL ALCOHOL

LD50 (Dermal):	2000 mg/kg Rabbit
LD50 (Oral):	1200 mg/kg
LC50 (Inhalation vapours):	> 4,1 mg/l/4h Rat

## Propylene Glycol USP-EP-E1520

Tossicità dopo assunzione ripetuta (subacuta, subcronica, cronica)  
Tossicità orale subacuta  
Parametro : NOAEL(C) ( PROPANE-1,2-DIOL ; No. CAS : 57-55-6 )  
Via di esposizione : Per via orale  
Specie : Ratto (maschio)  
Dose efficace : 1700 mg/kg  
Tossicità inalativa subacuta  
Parametro : NOAEC ( PROPANE-1,2-DIOL ; No. CAS : 57-55-6 )  
Via di esposizione : Inalazione  
Specie : Ratto (maschio)  
Dose efficace : 2200 mg/m3.

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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**SECTION 11. Toxicological information** ... / >>

Propylene Glycol USP-EP-E1520  
Potere irritante: non irritante.

**SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class

Propylene Glycol USP-EP-E1520  
Potere irritante: non irritante.

**RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction.

Contains:

BENZYL ALCOHOL

4-Acetoxy-2,5-dimethyl-3(2H)furanone

Methylcyclopentenolone

Piperonal

**Respiratory sensitization**

Propylene Glycol USP-EP-E1520  
Non si conoscono effetti sensibilizzanti.

**Skin sensitization**

Propylene Glycol USP-EP-E1520  
Non si conoscono effetti sensibilizzanti.

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

Propylene Glycol USP-EP-E1520  
Cancerogenicità  
Parametro : NOAEL(C) ( PROPANE-1,2-DIOL ; No. CAS : 57-55-6 )  
Via di esposizione : Ratto (maschio)  
Dose efficace : 1700 mg/kg.

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**Adverse effects on development of the offspring**

Propylene Glycol USP-EP-E1520  
Possibili effetti nocivi sulla tossicità dello sviluppo  
Parametro : NOAEL (Sviluppo fetale) ( PROPANE-1,2-DIOL ; No. CAS : 57-55-6 )  
Via di esposizione : Topo  
Dose efficace : 10400 mg/kg bw/day.

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**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



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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

Propylene Glycol USP-EP-E1520	
LC50 - for Fish	40613 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	18340 mg/l/48h Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants	19000 mg/l/48h Skeletonema costatum

### 12.2. Persistence and degradability

Propylene Glycol USP-EP-E1520	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

BENZYL ALCOHOL  
Rapidly degradable

### 12.3. Bioaccumulative potential

Propylene Glycol USP-EP-E1520	
Partition coefficient: n-octanol/water	-1,07
BCF	0,09

BENZYL ALCOHOL	
Partition coefficient: n-octanol/water	1,1

### 12.4. Mobility in soil

Propylene Glycol USP-EP-E1520	
Partition coefficient: soil/water	0,46

### 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.  
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.  
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.

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**SECTION 14. Transport information** ... / >>**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

**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: NoneRestrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 40

Contained substance

Point 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:

None

Healthcare controls

Information not available

**15.2. Chemical safety assessment**

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

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## SECTION 16. Other information

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

<b>Carc. 2</b>	Carcinogenicity, category 2
<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H351</b>	Suspected of causing cancer.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH210</b>	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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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

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

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)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. 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

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.

### Additional Information:

- Sale prohibited to minors under 18 years.

### Changes to previous review:

The following sections were modified:

01 / 03 / 09.