

I Sigari della Toscana Caf. - I Sigari della Toscana Line - Arabica

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

Concentrate - flavored concentrated tobacco extract.

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:

Arabica - SDT06.S60 - Pla00547

It does not contain nanoform or substances that include nanoform.

Code: I Sigari della Toscana Caf.  
Product name I Sigari della Toscana Line - Arabica

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

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.

Intended use Concentrated.

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 (Rm)  
Italia  
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. Medicaphirenzalargo 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 3. Composition/information on ingredients ... / &gt;&gt;

## Methylcyclopentenolone

INDEX

 $0,35 \leq x < 0,4$ 

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

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.

## 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).

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## 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.

## 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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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

## Propylene Glycol USP-EP-E1520

## 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	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Inhalation			10	50			10	168
			mg/m3	mg/m3			mg/m3	mg/m3

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.

## 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.

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HAND PROTECTION Protect hands with category III work gloves. The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. 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 ISO 16321).																																																																	
RESPIRATORY PROTECTION 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. 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). 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																																																																	
<table><tr><th>Properties</th><th>Value</th><th>Information</th></tr><tr><td>Appearance</td><td>liquid</td><td></td></tr><tr><td>Colour</td><td>straw-coloured</td><td></td></tr><tr><td>Odour</td><td>aromatic</td><td></td></tr><tr><td>Melting point / freezing point</td><td>-3,2 °C</td><td>Substance:Tobacco Extract</td></tr><tr><td>Initial boiling point</td><td>184 °C</td><td>Substance:Propylene Glycol USP-EP-E1520</td></tr><tr><td>Flammability</td><td>not flammable</td><td></td></tr><tr><td>Lower explosive limit</td><td>2,6 % (p/p)</td><td>Substance:Propylene Glycol USP-EP-E1520</td></tr><tr><td>Upper explosive limit</td><td>12,5 % (p/p)</td><td>Substance:Propylene Glycol USP-EP-E1520</td></tr><tr><td>Flash point</td><td>104 °C</td><td>Substance:Propylene Glycol USP-EP-E1520 Flash point: 101 °C</td></tr><tr><td>Auto-ignition temperature</td><td>355 °C</td><td>Substance:Tobacco Extract</td></tr><tr><td>Decomposition temperature</td><td>not available</td><td></td></tr><tr><td>pH</td><td>5-7</td><td></td></tr><tr><td>Kinematic viscosity</td><td>43 CST</td><td></td></tr><tr><td>Solubility</td><td>soluble in water</td><td></td></tr><tr><td>Partition coefficient: n-octanol/water</td><td>not available</td><td></td></tr><tr><td>Vapour pressure</td><td>20 Pa</td><td>Substance:Propylene Glycol USP-EP-E1520 Vapour pressure: 1 mmHg Temperature: 25 °C</td></tr><tr><td>Density and/or relative density</td><td>1,02-1,05</td><td></td></tr><tr><td>Relative vapour density</td><td>not available</td><td></td></tr><tr><td>Particle characteristics</td><td>not applicable</td><td></td></tr></table>						Properties	Value	Information	Appearance	liquid		Colour	straw-coloured		Odour	aromatic		Melting point / freezing point	-3,2 °C	Substance:Tobacco Extract	Initial boiling point	184 °C	Substance:Propylene Glycol USP-EP-E1520	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 °C	Substance:Propylene Glycol USP-EP-E1520 Flash point: 101 °C	Auto-ignition temperature	355 °C	Substance:Tobacco Extract	Decomposition temperature	not available		pH	5-7		Kinematic viscosity	43 CST		Solubility	soluble in water		Partition coefficient: n-octanol/water	not available		Vapour pressure	20 Pa	Substance:Propylene Glycol USP-EP-E1520 Vapour pressure: 1 mmHg Temperature: 25 °C	Density and/or relative density	1,02-1,05		Relative vapour density	not available		Particle characteristics	not applicable	
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## 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.

## 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.

## 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

Information not available

## 10.6. Hazardous decomposition products

Propylene Glycol USP-EP-E1520

May develop: carbon oxides.

## 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) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

>2000 mg/kg

ATE (Dermal) of the mixture:

>2000 mg/kg

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## SECTION 11. Toxicological information ... / &gt;&gt;

Tobacco Extract  
LD50 (Dermal): 1100 mg/kg ratto  
LD50 (Oral): 1264 mg/kg ratto

Propylene Glycol USP-EP-E1520  
LD50 (Dermal): > 2000 mg/kg ratto  
LD50 (Oral): 22000 mg/kg ratto

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

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:  
Methylcyclopentenolone

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

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SECTION 11. Toxicological information ... / >>			
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 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 EC50 - for Crustacea EC50 - for Algae / Aquatic Plants			
40613 mg/l/96h Oncorhynchus mykiss 18340 mg/l/48h Ceriodaphnia dubia 19000 mg/l/48h Skeletonema costatum			
12.2. Persistence and degradability			
Propylene Glycol USP-EP-E1520 Solubility in water Rapidly degradable			
1000 - 10000 mg/l			
12.3. Bioaccumulative potential			
Propylene Glycol USP-EP-E1520 Partition coefficient: n-octanol/water BCF			
-1,07 0,09			
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 ≥ 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			
EPY 11.8.2 - SDS 1004.14			



## I Sigari della Toscana Caf. - I Sigari della Toscana Line - Arabica

## 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.

## 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:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  
None

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

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## SECTION 15. Regulatory information ... / &gt;&gt;

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.

## SECTION 16. Other information

Additional Information:

- Sale prohibited to minors under 18 years.

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

<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H318</b>	Causes serious eye damage.
<b>H317</b>	May cause an allergic skin reaction.
<b>H412</b>	Harmful 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
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

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## SECTION 16. Other information ... / &gt;&gt;

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.

## Changes to previous review:

The following sections were modified:

01 / 03 / 09 / 12 / 13.