

# Campagnolo Mineral Oil

## Section 1

### Identification

#### 1.1 Product identifier

Campagnolo Mineral Oil

#### 1.2 Product use

Recommended Use: Mineral oil for hydraulic disc brakes for bicycles  
Uses advised against: not applicable

#### 1.3 Supplier

FE Sports  
160 Bluestone Cct  
Seventeen Mile Rocks  
Queensland 4073  
Australia

Website: <https://www.fesports.com.au>

#### 1.4 Emergency telephone numbers:

+61- 411139383 or +61- 417760320

WHS@fesports.com.au / productsafety@fesports.com.au

Or

Local Poisons Information Centre

## Section 2

### Hazards Identification

#### 2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

- **Physical and chemical hazards:** the product is not classified for this hazard category.
- **Health hazards:** the product is not classified for this hazard category.
- **Environmental hazards:** the product is toxic to aquatic life with long lasting effects

Hazardous to the aquatic environment, chronic toxicity, H411, Toxic to aquatic life with long lasting effects

#### 2.2 Label elements

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

Hazard pictograms:



Signal Words: Danger

Hazard statements:  
**H411** Toxic to aquatic life with long lasting effects

Precautionary statements:

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.
- P103** Read label before use.
- P273** Avoid release to the environment.
- P391** Collect spillage.
- P501** Dispose of contents and container in accordance with local regulation.

**Contains:** Distillates (petroleum), heavy paraffinic

#### 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

### Ingredients

3.1 **Substances:** Not applicable

3.2 **Mixtures:**

Sub-component	Concentration %	Classification (EC) 1272/2008 (CLP)	Specific Concentration Limits 1272/2008 (CLP)
<b>Distillates (petroleum) hydrotreated heavy paraffinic</b> INDEX 649-467-00-8 EC 265-157-1 CAS 64742-54-7	90 - 100	Carc. 1B H350 May cause cancer  Classification note according to Annex VI to the CLP regulation: L	not applicable
<b>2,6-di-tert-butyl-p-cresol</b> <i>(Butylated Hydroxytoluene or BHT)</i> $C_{15}H_{24}O$ INDEX n/a EC 204-881-4 CAS 128-37-0	0 - 6	Aquatic acute 1 H400 M = 1  Aquatic Chronic 1 H410 M = 1	not applicable

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 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**

Treat symptomatically. Consult a doctor.

## 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; for example CO<sub>x</sub>.

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

## Section 6

### Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### FOR NON-EMERGENCY PERSONNEL

- Alert personnel responsible coordinating the response to such emergencies.
- Move away from the area affected by the accident if you are not in possession of the personal protective equipment listed in Section 8.

##### FOR EMERGENCY RESPONDERS

- Evacuate all personnel not suitably equipped to deal with the emergency.
- Wear suitable protective clothing and equipment, as set out in Section 8 of the safety data sheet, to prevent any contamination of the skin, eyes and personal clothing. Stop leak if safe to do so. Do not permit workers to access the area affected by the accident until safe conditions have been restored.
- Ventilate the affected areas.

#### 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 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, acids, bases and strong oxidant agents, see section 10 for details.

#### 7.3 Specific end use(s)

No specific end uses are intended other than the relevant use/s set out in Section 1.2 of this safety data sheet.

## Section 8

### Exposure controls / personal protection

#### 8.1 Control parameters

The product does not contain any substances that are subject to Community workplace exposure limits (OEL) requiring declaration in this Section.

Regulatory references: TLV-ACGIH ACGIH 2023

#### 2,6-di-tert-butyl-p-cresol (aka: Butylated Hydroxytoluene – BTH)

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	Critical effect
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm		
TLV-ACGIH		2				A4	Upper respiratory tract irritation

##### Predicted no-effect concentration – PNEC

Normal value in fresh water	0.199	ug/l
Normal value in marine water	0.02	ug/l
Normal value for fresh water sediment	0.458	mg/kg
Normal value for marine water sediment	0.046	mg/kg
Normal value for marine water, intermittent release	1.99	ug/l
Normal value of STP microorganisms	0.017	mg/l
Normal value for the food chain (secondary poisoning)	16.67	mg/kg
Normal value for the terrestrial compartment	0.054	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
Oral								0.25 mg/kg bw/d
Inhalation				0.435 mg/m <sup>3</sup>				1.76 mg/m <sup>3</sup>
Skin				0.25 mg/kg bw/d				0.5 mg/kg bw/d

#### Distillates (petroleum), hydrotreated heavy paraffinic

##### Predicted no-effect concentration – PNEC

Normal value for the food chain (secondary poisoning)	9.33	mg/kg
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##### 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
Oral				0.74 mg/kg bw/d				
Inhalation							5.58 mg/m <sup>3</sup>	2.73 mg/m <sup>3</sup>
Skin								0.97 mg/kg bw/d

## 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 adequate ventilation

### HAND PROTECTION

- Protect hands with category III work gloves, at least of type B resistant to compound class F and J.
- The following should be considered when choosing work glove material (see standard EN 374):
  - 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.
- Product residues must not be indiscriminately disposed of with wastewater or by dumping in waterways.

## Section 9

### Physical and chemical properties

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

Properties	Value	Information
Appearance	liquid	
Colour	red	
Odour	characteristic	
Melting point / freezing point	-45 °C	
Initial boiling point	> 250 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	190 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not applicable	The product is a mixture
Vapour pressure	not applicable	The product is a mixture
Density and/or relative density	0,8456 g/cm <sup>3</sup>	
Relative vapour density	not available	
Particle characteristics	not applicable	The product is a mixture

#### 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

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

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Acids, bases and strong oxidant agents.

#### 10.6 Hazardous decomposition products

By thermal decomposition, gases and vapours potentially harmful to health can be released, for example COx.

## Section 11

### Toxicological Information

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

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 consider the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

- **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

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

- ATE (Inhalation) of the mixture: Not classified (no significant component)
- ATE (Oral) of the mixture: Not classified (no significant component)
- ATE (Dermal) of the mixture: Not classified (no significant component)

#### 2,6-di-tert-butyl-p-cresol

- LD50 (Dermal): > 2000 mg/kg (rats)
- LD50 (Oral): > 6000 mg/kg (rats)

#### Distillates (petroleum), hydrotreated heavy paraffinic

- LD50 (Dermal): > 5000 mg/kg (rabbits)
- LD50 (Oral): > 5000 mg/kg (rats)
- LC50 (Inhalation mists/powders): 2,18 mg/l/4h (rats)

### SKIN CORROSION / IRRITATION

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### SERIOUS EYE DAMAGE / IRRITATION

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### RESPIRATORY OR SKIN SENSITISATION

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### GERM CELL MUTAGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### CARCINOGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### REPRODUCTIVE TOXICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### STOT - SINGLE EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### STOT - REPEATED EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

### ASPIRATION HAZARD

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified 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

#### 12.1 Toxicity

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class, **Aquatic Chronic.2, H411**.

#### 2,6-di-tert-butyl-p-cresol

LC50 - for Fish	> 0,57 mg/l/96h Danio rerio (Zebra fish)
EC50 - for Crustacea	0,48 mg/l/48h Daphnia magna (Water flea)
EC50 for Algae / Aquatic Plants	> 0,4 mg/l/72h Desmodesmus subspicatus (Green Algae)

#### Distillates (petroleum), hydrotreated heavy paraffinic

EC50 - for Crustacea	> 10000 mg/l/48h Daphnia magna (Water flea)
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#### 12.2 Persistence and degradability

**Distillates (petroleum), hydrotreated heavy paraffinic** Rapidly degradable: 31% in 28 days

#### 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. 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.

#### 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: **UN 3082**

ADR / RID: In accordance with Special Provision 375, this product, when it is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not subject to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when it is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not subject to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when it is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not subject to IATA dangerous goods regulations.

#### 14.2 UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6 di tert butyl p cresol)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6 di tert butyl p cresol)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6 di tert butyl p cresol)

#### 14.3 Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



#### 14.4 Packing group

ADR / RID, IMDG, IATA: III

#### 14.5 Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



#### 14.6 Special precautions for user

ADR / RID	HIN - Kemler: 90 Special Provisions:	Limited Quantities: 5 L 274, 335, 375, 601	Tunnel restriction code:(-)
IMDG	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA	Cargo:	Maximum Quantity: 450L	Packaging Instructions: 964
	Passengers: Special Provision:	Maximum Quantity: 450L A97, A158, A197, A215	Packaging Instructions: 964

#### 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: E2

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

- Product Point 3
- Contained substance Point 28-75

**Distillates (petroleum), hydrotreated heavy paraffinic** REACH Reg.: 01-2119484627-25-XXXX

- 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
- Biocidal Products Regulation (Reg. (EU) 528/2012):
  - not applicable
- Detergent regulations (Reg. (EC) 648/2004):
  - not applicable
- Dir. 2004/42/EC - VOC/Italian Leg. Decree 161/2006:
  - not applicable
- 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
- German regulation on the classification of substances hazardous to water (AwSV, vom 18 April 2017) WGK 3:
  - Severe hazard to waters

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been conducted for the contained substances.

## Section 16

### Other Information

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

- |                     |  |
|---------------------|--|
| • Carc. 1B          | Carcinogenicity, category 1B                                       |
| • Aquatic Acute 1   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| • Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| • Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| • H350              | May cause cancer.  |
| • H400              | Very toxic to aquatic life.  |
| • H410              | Very toxic to aquatic life with long lasting effects.              |
| • H411              | Toxic to aquatic life with long lasting effects.                   |

#### LEGEND:

ADR:	European Agreement concerning the carriage of Dangerous goods by Road	PEC:	Predicted environmental Concentration
ATE:	Acute Toxicity Estimate	PEL:	Predicted exposure level
CAS:	Chemical Abstract Service Number	PNEC:	Predicted no effect concentration
CE50:	Effective concentration (required to induce a 50% effect)	REACH:	Regulation (EC) 1907/2006
CE:	Identifier in ESIS (European archive of existing substances)	RID:	Regulation concerning the international transport of dangerous goods by train
CLP:	Regulation (EC) 1272/2008	TLV:	Threshold Limit Value
DNEL:	Derived No Effect Level	TLV CEILING:	Concentration that should not be exceeded during any time of occupational exposure.
EmS:	Emergency Schedule	TWA:	Time weighted average exposure limit
GHS:	Globally Harmonized System of classification and labelling of chemicals	TWA STEL:	Short term exposure limit
IATA DGR:	International Air Transport Association Dangerous Goods Regulation	VOC:	Volatile organic Compounds
IC50:	Immobilization Concentration 50%	vPvB:	Very Persistent and very Bioaccumulative as for REACH Regulation
IMDG:	International Maritime Code for dangerous goods	WGK:	Water hazard classes (German).
IMO:	International Maritime Organization	A1	Confirmed Human Carcinogen
INDEX:	Identifier in Annex VI of CLP	A2	Suspected Human Carcinogen
LC50:	Lethal Concentration 50%	A3	Confirmed Animal Carcinogen with Unknown Relevance to Humans
LD50:	Lethal dose 50%	A4	Not Classifiable as a Human Carcinogen
OEL:	Occupational Exposure Level	A5	Not Suspected as a Human Carcinogen
PBT:	Persistent bioaccumulative and toxic as REACH Regulation	IBE	Biological Indicators of Exposure.

#### GENERAL BIBLIOGRAPHY

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

## CALCULATION METHODS

Chemical-physical hazards: the dangerousness has been derived from the classification criteria of CLP Regulation Annex I Part 2 as amended and added.

Health hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

- Acute Tox: application of criteria in Table 3.1.1. Annex I Part 3 of CLP Regulation as amended and added.
- Skin Corr. 1A/1B/1C H314: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation
- Skin Irrit 2 H315: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation
- Eye Dam 1 H318: application of additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation
- Eye Irrit. 2 H319: application of the additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation
- Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
- Skin Sens 1A/1B/1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
- Resp Sens 1A/1B/1 H334 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
- Muta. 1A/1B, 2 H340 - H341: table 3.5.2 Annex I Part 3 of CLP Regulation as amended and added.
- Carc 1A/1B, 2 H350 - H351: table 3.6.2 Annex I Part 3 of CLP Regulation as amended and added.
- Repr 1A/1B, 2 H360 - H361: table 3.7.2 Annex I Part 3 of CLP Regulation as amended and added.
- STOT SE 1, 2 H370 - 371: application of the calculation methods table 3.8.3 of Ann. I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
- STOT SE 3 H336: ch. 3.8.3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
- STOT RE 1, 2 H372 - H373: table 3.9.4 Annex I Part 3 of CLP Regulation as amended and added.
- Asp Tox 1 H304: application of criteria 3.10 Annex I Part 3 of CLP Regulation as amended and added

Environmental hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

- toxicity for the aquatic environment acute effects
  - table 4.1.1 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added;
- toxicity for the aquatic environment chronic effects
  - table 4.1.2 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added.

### Note for users:

- The information contained in the present sheet is 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.

**END OF SAFETY DATA SHEET**