

Safety Data Sheet

Compliant with the safety data sheet format defined by Ann. II of the REACH Reg., but not required by Art. 31

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

1.1. Product identifier

Product name S.C. ink Dark Blue 2748C

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

Intended use Ink to be used in playful activities. Use to the consumer.

1.3. Details of the supplier of the Information Sheet

Name CLEMENTONI SPA
Full address ZONA INDUSTRIALE FONTENOCE
District and Country 62019 RECANATI (MC)
ITALIA
Tel. 07175811 - Opening hours: 08:30 - 17:30

e-mail address of the competent person
responsible for the information sheet info@clementoni.it

Supplier: Technical department

1.4. Emergency telephone number

For urgent inquiries refer to Telephone numbers of the main Italian Poison Control Centres (active 24/24 hours)

CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA Roma 06 68593726
Az. Osp. Univ. Foggia Foggia 800183459
Az. Osp. "A. Cardarelli" Napoli 081-5453333
CAV Policlinico "Umberto I" Roma 06-49978000
CAV Policlinico "A. Gemelli" Roma 06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica Firenze 055-7947819
CAV Centro Nazionale di Informazione Tossicologica Pavia 0382-24444
Osp. Niguarda Ca' Granda Milano 02-66101029
Azienda Ospedaliera Papa Giovanni XXII Bergamo 800883300
Azienda Ospedaliera Integrata Verona Verona 800011858

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) (and subsequent amendments and supplements).

Hazard classification and indication: The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

2.2. Label elements

Hazard pictograms: None

Signal words: None

Hazard statements: None

Precautionary statements: None

2.3. Other hazards

SECTION 2. Hazards identification ... / >>

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)
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Glycerol

INDEX	$7,5 \leq x < 10,5$	
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EC	200-289-5	
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CAS	56-81-5	
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1,2-PROPANEDIOL

INDEX	$1 \leq x < 2$	
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EC	200-338-0	
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CAS	57-55-6	
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Food Blue 002

INDEX	$0,2 \leq x < 0,7$	
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EC	223-339-8	
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CAS	3844-45-9	
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Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate

INDEX	$0,1 \leq x < 0,6$	
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EC	220-036-2	
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CAS	2611-82-7	
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SODIUM BENZOATE

INDEX	$0,05 \leq x < 0,25$	
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EC	208-534-8	
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CAS	532-32-1	
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Acute Tox. 4 H302
LD50 Oral: 2000 mg/kg

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.

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.

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

If symptoms occur, whether acute or delayed, consult a doctor.

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).

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 information 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)

Ink to be used in playful activities. In the manipulation and storage of the product, follow the precautions envisaged on points 7.1 and 7.2 of this document.

8.1. Control parameters

Regulatory references:

DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe
GBR	United Kingdom ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2025

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
AGW	DEU	10	20	INHAL
AGW	DEU	10	20	SKIN
ACGIH		2,5		INHAL
ACGIH		2,5		SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,581	mg/l
Normal value in marine water	0,0581	mg/l
Normal value for fresh water sediment	2,5	mg/kg/d
Normal value for marine water sediment	0,25	mg/kg/d
Normal value for marine water, intermittent release	0,0581	mg/l
Normal value for fresh water, intermittent release	0,00581	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	300	mg/kg
Normal value for the terrestrial compartment	0,158	mg/kg/d
Normal value for the atmosphere	NPI	

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		NPI		16,6 mg/kg bw/d				
Inhalation	NPI	NPI	0,060 mg/m3	1,5 mg/m3	NPI	NPI	0,100 mg/m3	3 mg/m3
Skin	NPI	NPI	NPI	31,25 mg/kg bw/d	NPI	NPI	NPI	62,5 mg/kg bw/d

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	10				Particulates

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/d
Normal value for marine water sediment	57,2	mg/kg/d
Normal value for marine water, intermittent release	183	mg/l
Normal value of STP microorganisms	20000	mg/l
Normal value for the terrestrial compartment	50	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL[illegible]

Glycerol

[illegible]

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		NPI		6 mg/kg bw/d				
Inhalation			LOW	18,7 mg/m3			LOW	106 mg/m3
Skin	NPI	NPI	LOW	10,7 mg/kg bw/d	NPI	NPI	LOW	30 mg/kg bw/d

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

Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	0,392	mg/kg/d
Normal value for marine water sediment	0,0392	mg/kg/d
Normal value for marine water, intermittent release	1	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0197	mg/kg/d
Normal value for the atmosphere	NPI	

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 systemic	Chronic local	Chronic systemic
Oral		NEA		2,5 mg/kg bw/d			
Inhalation	NPI	NPI	NPI	3,7 mg/m3	NPI	NPI	24,7 mg/m3
Skin	NPI	NPI	NPI	2,5 mg/kg bw/d	NPI	NPI	7 mg/kg bw/d

Legend:

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

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

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

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

Properties	Value	Information
Appearance	liquid	
Colour	dark blue	
Odour	slightly watery	
Melting point / freezing point	not determined	
Initial boiling point	not determined	
Flammability	not determined	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	> 93 °C	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
pH	4-9	
Kinematic viscosity	not determined	
Solubility	Miscible in water and miscible in organic solvents	

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

Partition coefficient: n-octanol/water	not determined
Vapour pressure	not determined
Density and/or relative density	not determined
Relative vapour density	> 1
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

Total solids (250°C / 482°F)	1,30 %
VOC (Directive 2010/75/EU)	11,50 %
VOC (volatile carbon)	4,62 %
Explosive properties	The product does not have the danger of explosion

SECTION 10. Stability and reactivity

10.1. Reactivity

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

1,2-PROPANEDIOL

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.

10.3. Possibility of hazardous reactions

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

1,2-PROPANEDIOL

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

Incompatible materials are not known.

10.6. Hazardous decomposition products

1,2-PROPANEDIOL

May develop: carbon oxides.

Non -dangerous decomposition products are not known.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

No more information is known.

Information on likely routes of exposure

SECTION 11. Toxicological information ... / >>

There are no further known compared to those reported in section 4.

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

There are no further known compared to those reported in section 4.

Interactive effects

Interactive effects of the product are not known.

ACUTE TOXICITY

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)

Glycerol	
LD50 (Dermal):	45 ml/kg guinea pigs
LD50 (Oral):	> 11500 mg/kg
LC50 (Inhalation vapours):	> 5,85 mg/l/4h rat

1,2-PROPANEDIOL	
LD50 (Dermal):	2000 mg/kg rabbit
LD50 (Oral):	22000 mg/kg rat
LC50 (Inhalation vapours):	44,9 mg/l/4h rat

Food Blue 002	
LD50 (Oral):	2000 mg/kg rat

Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate	
LD50 (Oral):	> 8000 mg/kg ratto

SODIUM BENZOATE	
LD50 (Dermal):	2000 mg/kg rabbit
LD50 (Oral):	2000 mg/kg Rat
LC50 (Inhalation mists/powders):	12,2 mg/l/4h 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

Does not meet the classification criteria for this hazard class

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

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

SECTION 11. Toxicological information ... / >>

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

Glycerol
LC50 - for Fish 54 g/l/96h
EC50 - for Crustacea 10 mg/l/48h

1,2-PROPANEDIOL
LC50 - for Fish 40,613 g/l/96h
EC50 - for Crustacea 18,8 g/l/48h
EC50 - for Algae / Aquatic Plants 19 g/l/72h
Chronic NOEC for Crustacea > 13,02 g/l
Chronic NOEC for Algae / Aquatic Plants > 5,3 g/l

Food Blue 002
LC50 - for Fish 132 mg/l/96h
EC50 - for Crustacea 100 mg/l/48h
EC50 - for Algae / Aquatic Plants 200 mg/l/72h

Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate
LC50 - for Fish > 1000 mg/l/96h danio rerio
EC50 - for Crustacea > 100 mg/l/48h daphnia magna
Chronic NOEC for Algae / Aquatic Plants 100 mg/l lemna

SODIUM BENZOATE
LC50 - for Fish 484 mg/l/96h
EC50 - for Algae / Aquatic Plants 30,5 mg/l/72h
Chronic NOEC for Crustacea 5,81 mg/l

12.2. Persistence and degradability

Glycerol
Solubility in water 1000 g/l @25°C
Rapidly degradable

1,2-PROPANEDIOL
Solubility in water 100 vol% @20°C and pH 7,1-7,8
Rapidly degradable

Food Blue 002
Solubility in water 50 g/l
NOT rapidly degradable

Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate
Solubility in water 305,21 g/l
NOT rapidly degradable

SODIUM BENZOATE
Solubility in water > 10000 mg/l
Rapidly degradable

12.3. Bioaccumulative potential

SECTION 12. Ecological information ... / >>

Glycerol
Partition coefficient: n-octanol/water -1,75 Log Kow @25°C and pH 7,4

1,2-PROPANEDIOL
Partition coefficient: n-octanol/water -1,07
BCF 0,09

Food Blue 002
Partition coefficient: n-octanol/water 2,02 Log Kow

Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate
Partition coefficient: n-octanol/water -2,267 Log Kow

SODIUM BENZOATE
Partition coefficient: n-octanol/water 1,88

12.4. Mobility in soil

1,2-PROPANEDIOL
Partition coefficient: soil/water 0,46

SODIUM BENZOATE
Partition coefficient: soil/water 7,033

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

There are no information about other adverse effects of the product.

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

SECTION 14. Transport information ... / >>

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

<u>Contained substance</u>		
Point	75	Food Blue 002
Point	75	Trisodium 1-(1-naphthylazo)-2hydroxynaphthalene-4',6,8-trisulphonate

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.

SECTION 16. Other information

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

Acute Tox. 4	Acute toxicity, category 4
H302	Harmful if swallowed.

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

SECTION 16. Other information ... / >>

- 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
 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)
 27. Delegated Regulation (UE) 2024/2564 (XXII 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.