**SAFETY** DATA SHEET **121-04**

# BLU OSSIDO XLR

## 1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

### 1.1 Product identifier

| | |
|---|---|
| Product name | BLU OSSIDO XLR |

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

| | |
|---|---|
| Description/Application | COLORANT |

### 1. 3 Details of the supplier of the safety data sheet

| | |
|---|---|
| Name: | BERICALCE S.R.L. |
| Full address: | Via Piave, 23 - 36033 Isola Vicentina (VI) |
| Phone: | +39 0444 929102 +39 0444 654919 |
| Fax: | +39 0444 929102 |
| E-mail address of the competent person responsible to the Safety Data Sheet | info@bericalce.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| For urgent inquiries refer to | SANITARY EMERGENCY |

## 2. HAZARD 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

Danger labeling: -

Warnings: -

Hazard indication -

Safety advice: -

Special Provisions:

| | |
|---|---|
| EUH210 | Safety data sheet available on request. |
| EUH208 | Contains: 2-methylisothiazol-3(2H)-one<br>reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>1,2-benzisothiazol-3(2H)-one<br>May produce an allergic reaction. |

Precautionary statements: --

### 2.3 Other dangers

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable

### 3.2 Mixtures

Contains:

| Identification | Conc. %. | Classification 1272/2008 (CLP). |
|---|---|---|
| 1,2-benzisothiazol-3(2H)-one | | |
| INDEX 613-088-00-6 | 0 < x < 0,05 | Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC 220-120-9 | | Skin Sens. 1 H317: ≥ 0,05% |
| CAS 2634-33-5 | | LD50 Oral: 450 mg/kg, LC50 Inhalation mists/powders: 0,21 mg/l/4h |
| REACH Reg. 01-2120761540-60 | | |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | |
| INDEX 613-167-00-5 | 0 < x < 0,0015 | Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071 |
| EC | | Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% - <0,6% |
| CAS 55965-84-9 | | LD50 Oral: 66 mg/kg, LD50 Dermal: >141 mg/kg, LC50 Inhalation mists/powders: 0,17 mg/l/4h |
| REACH Reg. 01-2120764691-48 | | |
| 2-methylisothiazol-3(2H)-one | | |
| INDEX | 0 < x < 0,0015 | Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH071 |
| EC 220-239-6 | | Skin Sens. 1A H317: ≥ 0,0015% |
| CAS 2682-20-4 | | LD50 Oral: 120 mg/kg, LD50 Dermal: 300 mg/kg, LC50 Inhalation mists/powders: 0,134 mg/l/4h |
| REACH Reg. 01-2120764690-50 | | |

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

## 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 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.

## 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Water. Carbon dioxide (CO2).
UNSUITABLE EXTINGUISHING EQUIPMENT
Nothing 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).

## 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 are shown in sections 8 and 13.

## 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

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Information not available

### 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.
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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Dense liquid |
| Colour | blue |
| Odour | characteristic |
| Melting point / freezing point | 0 °C |
| Initial boiling point | not available |
| Flammability | not flammable |
| Lower explosive limit | not available |
| Upper explosive limit | not available |
| Flash point | not applicable |
| Auto-ignition temperature | 0 °C |
| Decomposition temperature | not available |
| pH | 8,5 - 9,5 |
| Kinematic viscosity | not available |
| Dynamic viscosity | 1560 - 2900 cPs (Brookfield) |
| Solubility | miscible with water |
| Partition coefficient: n-octanol/water | not available |
| Vapour pressure | not available |
| Density and/or relative density | 1,83 - 1,95 g/cm3 (23 °C) |
| Relative vapour density | not available |
| Particle characteristics | not applicable |

**9.2.1. Other information**

Information not available

**9.2.2. Other safety characteristics**

Information not available

## 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

Information not available

### 10.6 Hazardous decomposition products

Information not available

## 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 toxicological effects

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: Not classified (no significant component)
ATE (Dermal) of the mixture: Not classified (no significant component)
1,2-benzisothiazol-3(2H)-one
LD50 (Oral): 450 mg/kg
LC50 (Inhalation mists/powders): 0,21 mg/l/4h
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
LD50 (Dermal): > 141 mg/kg
LD50 (Oral): 66 mg/kg
LC50 (Inhalation mists/powders): 0,17 mg/l/4h
2-methylisothiazol-3(2H)-one
LD50 (Dermal): 300 mg/kg
LD50 (Oral): 120 mg/kg
LC50 (Inhalation mists/powders): 0,134 mg/l/4h
SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITISATION
May produce an allergic reaction.
Contains:
2-methylisothiazol-3(2H)-one
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
1,2-benzisothiazol-3(2H)-one
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
ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

## 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

2-methylisothiazol-3(2H)-one
LC50 - for Fish 6 mg/l/96h Oncorinchus mykiss (OECD 203)
EC50 - for Crustacea 1,68 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants 0,157 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish 2,38 mg/l (28d) pimephales promelas (OECD 210)
Chronic NOEC for Crustacea 0,55 mg/l (21d) Daphnia Magna (OECD 211)
Chronic NOEC for Algae / Aquatic Plants 0,03 mg/l (72h) Pseudokirchneriella subcapitata (OECD 201)
1,2-benzisothiazol-3(2H)-one
LC50 - for Fish 2,2 mg/l/96h Oncorinchus mykiss (OECD 203)
EC50 - for Crustacea 3,27 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants 0,11 mg/l/72h Selenastrum capricornutum (OECD 201)
EC10 for Algae / Aquatic Plants 0,04 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish 0,21 mg/l Oncorinchus mykiss (OECD 215)
Chronic NOEC for Crustacea 1,2 mg/l (21d) Daphnia magna (OECD 211)
Chronic NOEC for Algae / Aquatic Plants 0,04 mg/l Selenastrum capricornutum (OECD 201)
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
EC50 - for Crustacea 0,1 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants 0,048 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish 0,098 mg/l (28d) Oncorhyncus mykiss (OECD 210)
Chronic NOEC for Crustacea 0,004 mg/l (21d) Daphnia magna (OECD 211)
Chronic NOEC for Algae / Aquatic Plants 0,0012 mg/l (72h) Pseudokirchneriella subcapitata (OECD 201)

### 12.2 Persistence and degradability

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Biodegradabilità > 60% (fanghi attivi) (OECD 301D Oxygen Depletion)
1,82 - 1,92 giorni (half life) OECD 308
2-methylisothiazol-3(2H)-one
2-METIL-2H-ISOTIAZOL-3-ONE
1,28 - 2,1 giorni (half life) OECD 308
4,1 giorni (half life) OECD 309
2-methylisothiazol-3(2H)-one
Rapidly degradable
1,2-benzisothiazol-3(2H)-one
NOT rapidly degradable
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Rapidly degradable
Not applicable.

### 12.3 Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one
Partition coefficient: n-octanol/water 0,7 HPLC Method (OECD 117)
BCF 6,95 pesce (OECD 305)
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Partition coefficient: n-octanol/water < 0,71 HPLC method
BCF 3,16

### 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 ≥ than 0,1%.

**12.6 Other adverse effects**
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine

**12.7. Other adverse effects**
Information not available

## 13 DISPOSAL CONSIDERATIONS

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

## 14 TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

**14.1 ONU number**
Not applicable.

**14.2 ONU shipping name**
Not applicable.

**14.3 Hazard classes connected to shipping**
Not applicable.

**14.4 Packaging group**
Not applicable.

**14.5 Environmental hazards**
Not applicable.

**14.6 Special precautions for users**
Not applicable.

**14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code**
Not applicable.

## 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
Product
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 ≥ 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.

## 16 OTHER INFORMATIONS

Text of hazard (H) indications mentioned in section 2-3 of the sheet:
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Skin Corr. 1B Skin corrosion, category 1B
Skin Corr. 1C Skin corrosion, category 1C
Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.
EUH210 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
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)
24. Delegated Regulation (UE) 2023/1435 (XX 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.

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The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

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