

Safety Data Sheet

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

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

1.1. Product identifier

Code: C00288B
Product name: Epoxyfloor 500 W Componente B
UFI : 6F60-W09S-E00M-8TF2

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

Intended use: formulato epossidico

1.3. Details of the supplier of the safety data sheet

Name: Licata S.p.A.
Full address: Via De Gasperi,155
District and Country: 92024 Canicatti (AG)
Italia
Tel.: +39 0922 856088
Fax: +39 0922 831427
e-mail address of the competent person responsible for the Safety Data Sheet: controllo-qualita@licataspa.it

1.4. Emergency telephone number

For urgent inquiries refer to:
NHS111in England: 111
NHS24in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	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: Warning

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C00288B - Epoxyfloor 500 W Componente B			
SECTION 2. Hazards identification ... / >>			
Hazard statements:			
H319	Causes serious eye irritation.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H411	Toxic to aquatic life with long lasting effects.		
EUH205	Contains epoxy constituents. May produce an allergic reaction.		
Precautionary statements:			
P280	Wear protective gloves / eye protection / face protection.		
P273	Avoid release to the environment.		
P391	Collect spillage.		
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.		
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.		
P337+P313	If eye irritation persists: Get medical advice / attention.		
P264	Wash . . . thoroughly after handling.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
Contains:			
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)			
2.3. Other hazards			
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.			
The product contains substances with endocrine disrupting properties in concentration ≥ 0,1%:			
ETHOXYLATED NONYL PHENOL			
4-(1,1,3,3-TETRAMHETYLBUYL)PHENOL,ETHOXYLATED			
SECTION 3. Composition/information on ingredients			
3.2. Mixtures			
Contains:			
Identification			
x = Conc. %			
Classification (EC) 1272/2008 (CLP)			
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)			
INDEX	603-074-00-8	47,5 ≤ x < 50	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	500-033-5		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%
CAS	25068-38-6		
ETHOXYLATED NONYL PHENOL			
INDEX		1 ≤ x < 1,5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
EC	500-024-6		LD50 Oral: 1310 mg/kg
CAS	9016-45-9		
4-(1,1,3,3-TETRAMHETYLBUYL)PHENOL,ETHOXYLATED			
INDEX		0,5 ≤ x < 0,6	Aquatic Chronic 3 H412
EC			
CAS	9002-93-1		
Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1)			
INDEX	613-167-00-5	0,05 ≤ x < 0,1	Acute Tox. 1 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC			LD50 Oral: >53 mg/kg, ATE Dermal: 300 mg/kg, LC50 Inhalation vapours: >0,33 mg/l/1h, ATE Inhalation vapours: 3 mg/l
CAS	55965-84-9		
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			
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			
EPY 11.7.1 - SDS 1004.14			

SECTION 4. First aid measures ... / >>

minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. 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. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. 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 skin irritation or rash occurs: Get medical advice / attention.

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**

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.

SECTION 6. Accidental release measures ... / >>**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**

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

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 II 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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SECTION 9. Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Properties	Value	Information	
Appearance	dense liquid		
Colour	neutral		
Odour	characteristic		
Melting point / freezing point	not available		
Initial boiling point	not available		
Flammability	not available		
Lower explosive limit	not available		
Upper explosive limit	not available		
Flash point	100 °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 available		
Vapour pressure	not available		
Density and/or relative density	not available		
Relative vapour density	not available		
Particle characteristics	not applicable		
9.2. Other information			
9.2.1. Information with regard to physical hazard classes			
Information not available			
9.2.2. Other safety characteristics			
Information not available			
SECTION 10. Stability and reactivity			
10.1. Reactivity			
There are no particular risks of reaction with other substances in normal conditions of use.			
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			
EPY 11.7.1 - SDS 1004.14			

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

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:	Not classified (no significant component)

Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1)

LD50 (Oral):	> 53 mg/kg
LC50 (Inhalation vapours):	> 0,33 mg/l/1h

ETHOXYLATED NONYL PHENOL	
LD50 (Dermal):	1780 mg/kg Rabbit
LD50 (Oral):	1310 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

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<div>SECTION 11. Toxicological information ... / >></div>		
<div>Does not meet the classification criteria for this hazard class</div>		
<div>11.2. Information on other hazards</div> <div>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.</div>		
<div>SECTION 12. Ecological information</div>		
<div>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.</div>		
<div>12.1. Toxicity</div> <div> <div>Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1)</div> <div> <div>LC50 - for Fish</div> <div>> 0,19 mg/l/96h</div> </div> <div> <div>EC50 - for Crustacea</div> <div>> 0,16 mg/l/48h</div> </div> <div> <div>EC50 - for Algae / Aquatic Plants</div> <div>> 0,018 mg/l/72h</div> </div> <div> <div>EC10 for Algae / Aquatic Plants</div> <div>> 0,09 mg/l/72h</div> </div> </div>		
<div>12.2. Persistence and degradability</div> <div> <div>ETHOXYLATED NONYL PHENOL</div> <div> <div>Solubility in water</div> <div>> 10000 mg/l</div> </div> <div>Rapidly degradable</div> <div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div> <div> <div>Solubility in water</div> <div>0,1 - 100 mg/l</div> </div> <div>NOT rapidly degradable</div> </div>		
<div>12.3. Bioaccumulative potential</div> <div> <div>ETHOXYLATED NONYL PHENOL</div> <div> <div>Partition coefficient: n-octanol/water</div> <div>3,7</div> </div> <div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div> <div> <div>Partition coefficient: n-octanol/water</div> <div>> 2,918</div> </div> <div>BCF</div> <div>31</div> </div>		
<div>12.4. Mobility in soil</div> <div>Information not available</div>		
<div>12.5. Results of PBT and vPvB assessment</div> <div>On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.</div>		
<div>12.6. Endocrine disrupting properties</div> <div>Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on the environment and on animal species causing adverse effects on the exposed organisms or on their progeny:</div> <div>ETHOXYLATED NONYL PHENOL</div> <div>4-(1,1,3,3-TETRAMHETYLBUYL)PHENOL,ETHOXYLATED</div>		
<div>12.7. Other adverse effects</div> <div>Information not available</div>		
<div>SECTION 13. Disposal considerations</div>		
<div>13.1. Waste treatment methods</div> <div>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.</div> <div>Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.</div>		
<div>EPY 11.7.1 - SDS 1004.14</div>		

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SECTION 13. Disposal considerations ... / >>				
Waste transportation may be subject to ADR restrictions. 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 is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.		
IMDG:		In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.		
IATA:		In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.		
14.2. UN proper shipping name				
ADR / RID:		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1))		
IMDG:		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1))		
IATA:		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Miscela di: 5-cloro-2-metil-2H-isotiazol3-one [EC no. 247-500-7] e 2-metil-2Hisotiazol-3-one [ECno. 220-239-6] (3:1))		
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		

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SECTION 14. Transport information ... / >>			
14.6. Special precautions for user			
<div>ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 lt Tunnel restriction code: (-)</div> <div>IMDG: EMS: F-A, S-F Limited Quantities: 5 lt</div> <div>IATA: Cargo: Maximum quantity: 450 L Packaging instructions: 964</div> <div> Passengers: Maximum quantity: 450 L Packaging instructions: 964</div> <div> Special provision: A97, A158, A197, A215</div>			
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			
<div>Seveso Category - Directive 2012/18/EU: E2</div> <div>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006</div> <div><div>Product</div><div>Point 3</div><div>Contained substance</div><div>Point 75</div><div>Point 46-46a ETHOXYLATED NONYL PHENOL</div></div> <div>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</div> <div>not applicable</div> <div>Substances in Candidate List (Art. 59 REACH)</div> <div>4-(1,1,3,3-TETRAMHETYLBUYL)PHENOL,ETHOXYLATED</div> <div>ETHOXYLATED NONYL PHENOL</div> <div>Substances subject to authorisation (Annex XIV REACH)</div> <div>4-(1,1,3,3-TETRAMHETYLBUYL)PHENOL,ETHOXYLATED</div> <div>Sunset Date: 04/01/2021</div> <div>ETHOXYLATED NONYL PHENOL</div> <div>Sunset Date: 04/01/2021</div> <div>Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:</div> <div>ETHOXYLATED NONYL PHENOL - (NONYLPHENOL ETHOXYLATES)</div> <div>Substances subject to the Rotterdam Convention:</div> <div>None</div> <div>Substances subject to the Stockholm Convention:</div> <div>None</div> <div>Healthcare controls</div> <div>Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.</div>			
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:			
<div>Acute Tox. 1 Acute toxicity, category 1</div> <div>Acute Tox. 3 Acute toxicity, category 3</div> <div>Acute Tox. 4 Acute toxicity, category 4</div> <div>Skin Corr. 1B Skin corrosion, category 1B</div> <div>Eye Dam. 1 Serious eye damage, category 1</div> <div>Eye Irrit. 2 Eye irritation, category 2</div>			
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C00288B - Epoxyfloor 500 W Componente B**SECTION 16. Other information ... / >>**

Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
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.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

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

SECTION 16. Other information ... / >>

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.

Changes to previous review:

The following sections were modified:

01 / 14.