

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: **P10454**
Product name: **RESINFIP EPOBOND T 170 COMP. A**
UFI: **WG40-80EN-D007-2Y1K**

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

Intended use: **ADHESIVE 230 ST Componente A**

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:

Reproductive toxicity, category 1B	H360F	May damage fertility.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful 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:



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P10454 - RESINFIP EPOBOND T 170 COMP. A			
SECTION 2. Hazards identification ... / >>			
Signal words:		Danger	
Hazard statements:			
H360F	May damage fertility.		
H319	Causes serious eye irritation.		
H315	Causes skin irritation.		
H335	May cause respiratory irritation.		
H317	May cause an allergic skin reaction.		
H412	Harmful to aquatic life with long lasting effects.		
EUH205	Contains epoxy constituents. May produce an allergic reaction.		
	Restricted to professional users.		
Precautionary statements:			
P201	Obtain special instructions before use.		
P280	Wear protective gloves/ protective clothing / eye protection / face protection.		
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.		
P312	Call a POISON CENTRE / doctor / . . . if you feel unwell.		
P403+P233	Store in a well-ventilated place. Keep container tightly closed.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
Contains:	OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS FELDSPATO REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Fenolo, metilstirenato		
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 does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.			
SECTION 3. Composition/information on ingredients			
3.2. Mixtures			
Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
QUARTZ			
INDEX		30 ≤ x < 32,5	Substance with a community workplace exposure limit.
EC	238-878-4		
CAS	14808-60-7		
FELDSPATO			
INDEX		24 ≤ x < 25,5	Eye Irrit. 2 H319, STOT SE 3 H335
EC	270-666-7		
CAS	68476-25-5		
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)			
INDEX		22,5 ≤ x < 24	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	701-263-0		Skin Irrit. 2 H315: ≥ 5%
CAS	9003-36-5		
REACH Reg. 01-2119454392-40-0010			
Fenolo, metilstirenato			
INDEX		4,5 ≤ x < 5	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC			
CAS	68512-30-1		
OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS			
INDEX		0,5 ≤ x < 0,6	Repr. 1B H360F, Eye Irrit. 2 H319, Skin Sens. 1 H317
EC	271-846-8		
CAS	68609-97-2		
REACH Reg. 01-2119485289-22-XXXX			
The full wording of hazard (H) phrases is given in section 16 of the sheet.			
EPY 11.7.1 - SDS 1004.14			

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 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 exposed or concerned: 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.

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SECTION 6. Accidental release measures ... / >>		
<p>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.</p>		
6.2. Environmental precautions		
<p>The product must not penetrate into the sewer system or come into contact with surface water or ground water.</p>		
6.3. Methods and material for containment and cleaning up		
<p>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.</p>		
6.4. Reference to other sections		
<p>Any information on personal protection and disposal is given in sections 8 and 13.</p>		
SECTION 7. Handling and storage		
7.1. Precautions for safe handling		
<p>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.</p>		
7.2. Conditions for safe storage, including any incompatibilities		
<p>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.</p>		
7.3. Specific end use(s)		
<p>Information not available</p>		
SECTION 8. Exposure controls/personal protection		
8.1. Control parameters		
Regulatory references:		
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023
<div>EPY 11.7.1 - SDS 1004.14</div>		

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,12	mg/l
Normal value in marine water	0,112	mg/l
Normal value for fresh water sediment	1,05	mg/kg
Normal value for marine water sediment	0,105	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	20	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				0,05 mg/kg bw/d				
Inhalation				0,087 mg/m3				0,49 mg/m3
Skin				0,089 mg/kg bw/d				0,75 mg/kg bw/d

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,003	mg/l
Normal value in marine water	0,0003	mg/l
Normal value for fresh water sediment	0,294	mg/kg/d
Normal value for marine water sediment	0,0294	mg/kg/d
Normal value for fresh water, intermittent release	0,0254	mg/l
Normal value of STP microorganisms	10	ma/l

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				6,25 mg/kg bw/d				
Inhalation				8,7 mg/m3		29,39 mg/m3		
Skin				62,5 mg/kg bw/d	8,3 mg/kg bw/d			104,15 mg/kg bw/d

QUARTZ

Threshold Limit Value

Threshold Limit Value						
Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
GVI/KGVI	HRV	0,1				
VLEP	ITA	0,1				RESP
MV	SVN	0,15				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

(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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability

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SECTION 8. Exposure controls/personal protection ... / >>		
<p>time.</p> <p>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.</p> <p>SKIN PROTECTION</p> <p>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.</p> <p>EYE PROTECTION</p> <p>Wear airtight protective goggles (see standard EN ISO 16321).</p> <p>RESPIRATORY PROTECTION</p> <p>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).</p> <p>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.</p> <p>ENVIRONMENTAL EXPOSURE CONTROLS</p> <p>The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.</p> <p>Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.</p>		
SECTION 9. Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
<div>Properties</div> <div>Appearance</div> <div>Colour</div> <div>Odour</div> <div>Melting point / freezing point</div> <div>Initial boiling point</div> <div>Flammability</div> <div>Lower explosive limit</div> <div>Upper explosive limit</div> <div>Flash point</div> <div>Auto-ignition temperature</div> <div>Decomposition temperature</div> <div>pH</div> <div>Kinematic viscosity</div> <div>Solubility</div> <div>Partition coefficient: n-octanol/water</div> <div>Vapour pressure</div> <div>Density and/or relative density</div> <div>Relative vapour density</div> <div>Particle characteristics</div>	<div>Value</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>> 200 °C</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>> 200 °C</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>< 0,01 Pa a 20°C</div> <div>not available</div> <div>not available</div> <div>not applicable</div>	<div>Information</div>
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.		
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)		
Stable in normal conditions of use and storage.		
EPY 11.7.1 - SDS 1004.14		

SECTION 10. Stability and reactivity ... / >>

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

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.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable 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

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Incompatible with: strong acids, strong alkalis, amines, strong oxidising agents.

CALCIUM CARBONATE

Incompatible with: acids.

10.6. Hazardous decomposition products

CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS

LD50 (Dermal): > 4000 mg/kg Coniglio

LD50 (Oral): > 2000 mg/kg Ratto

LC50 (Inhalation vapours): > 0,15 mg/l Ratto

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

LD50 (Dermal): > 2000 mg/kg Coniglio

LD50 (Oral): > 2000 mg/kg Ratto

SECTION 11. Toxicological information ... / >>

CALCIUM CARBONATE

LD50 (Oral):

6450 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

May damage fertility

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

12.1. Toxicity

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS

LC50 - for Fish

> 5000 mg/l/96h

Chronic NOEC for Crustacea

56 mg/l Daphnia magna

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

LC50 - for Fish

2,54 mg/l/96h

EC50 - for Crustacea

2,55 mg/l/48h

EC50 - for Algae / Aquatic Plants

1,8 mg/l/72h

EC10 for Crustacea

0,3 mg/l/28d

12.2. Persistence and degradability

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

NOT rapidly degradable

CALCIUM CARBONATE

Solubility in water

0,1 - 100 mg/l

SECTION 12. Ecological information ... / >>**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

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

SECTION 14. Transport information ... / >>

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

Product	
Point	3
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 \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

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.

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:

Repr. 1B	Reproductive toxicity, category 1B
Eye Irrit. 2	Eye irritation, category 2
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 Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H360F	May damage fertility.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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)

SECTION 16. Other information ... / >>

- 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

SECTION 16. Other information ... / >>

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 / 02 / 03 / 04 / 08 / 10 / 11 / 12 / 16.