

## 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: **P10440**  
Product name: **COLMIX EPOX COMP. A**  
UFI: **9Y30-7098-J008-3WJ6**

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

Intended use: **THIXOTROPIC AMINO HARDENER**

#### 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.
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: **Danger**

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P10440 - COLMIX EPOX COMP. A			
SECTION 2. Hazards identification ... / >>			
Hazard statements:			
H360F	May damage fertility.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H411	Toxic to aquatic life with long lasting effects.		
	Restricted to professional users.		
Precautionary statements:			
P201	Obtain special instructions before use.		
P280	Wear protective gloves/ protective clothing / eye protection / face protection.		
P308+P313	IF exposed or concerned: Get medical advice / attention.		
P273	Avoid release to the environment.		
P391	Collect spillage.		
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.		
Contains:	OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)		
Product not intended for uses provided for by Directive 2004/42/EC.			
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	35 ≤ x < 37,5	Substance with a community workplace exposure limit.	
EC	238-878-4		
CAS	14808-60-7		
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)			
INDEX	35 ≤ x < 37,5	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		
OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS			
INDEX	603-103-00-4	7 ≤ x < 8	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.			
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			
EPY 11.7.1 - SDS 1004.14			

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

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.

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.



## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## 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	mg/l

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic
	local	systemic	local	systemic	local	systemic	local
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

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
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

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

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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<div>SECTION 9. Physical and chemical properties</div>		
<div>9.1. Information on basic physical and chemical properties</div>		
<div> <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>	<div> <div>Value</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>&gt; 100 °C</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>&gt; 100 °C</div> <div>not available</div> <div>not available</div> <div>12</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>1,35</div> <div>not available</div> <div>not applicable</div> </div>	<div> <div>Information</div> </div>
<div>9.2. Other information</div>		
<div>9.2.1. Information with regard to physical hazard classes</div>		
<div>Information not available</div>		
<div>9.2.2. Other safety characteristics</div>		
<div>Information not available</div>		
<div>SECTION 10. Stability and reactivity</div>		
<div>10.1. Reactivity</div>		
<div>There are no particular risks of reaction with other substances in normal conditions of use.</div>		
<div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div>		
<div>Stable in normal conditions of use and storage.</div>		
<div>CALCIUM CARBONATE</div>		
<div>Decomposes at temperatures above 800°C/1472°F.</div>		
<div>10.2. Chemical stability</div>		
<div>The product is stable in normal conditions of use and storage.</div>		
<div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div>		
<div>Stable in normal conditions of use and storage.</div>		
<div>10.3. Possibility of hazardous reactions</div>		
<div>No hazardous reactions are foreseeable in normal conditions of use and storage.</div>		
<div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div>		
<div>Stable in normal conditions of use and storage.</div>		
<div>10.4. Conditions to avoid</div>		
<div>None in particular. However the usual precautions used for chemical products should be respected.</div>		
<div>10.5. Incompatible materials</div>		
<div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div>		

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

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 1272/2008**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:

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

CALCIUM CARBONATE

LD50 (Oral): 6450 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

**SECTION 11. Toxicological information** ... / >>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

May damage fertility

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

**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 is toxic for 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

**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.



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SECTION 12. Ecological information ... / >>		
<div>12.7. Other adverse effects</div> <div>Information not available</div>		
SECTION 13. Disposal considerations		
<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.  Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  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. </div>		
SECTION 14. Transport information		
<div>14.1. UN number or ID number</div> <div> <div>ADR / RID, IMDG, IATA:UN 3082</div> <div> <div>ADR / RID:</div> <div>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.</div> </div> <div> <div>IMDG:</div> <div>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.</div> </div> <div> <div>IATA:</div> <div>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.</div> </div> </div>		
<div>14.2. UN proper shipping name</div> <div> <div>ADR / RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN))</div> <div>IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN))</div> <div>IATA:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN))</div> </div>		
<div>14.3. Transport hazard class(es)</div> <div> <div> <div>ADR / RID:</div> <div>Class: 9</div> <div>Label: 9</div> </div> <div> <div>IMDG:</div> <div>Class: 9</div> <div>Label: 9</div> </div> <div> <div>IATA:</div> <div>Class: 9</div> <div>Label: 9</div> </div> </div>		
<div>14.4. Packing group</div> <div> <div>ADR / RID, IMDG, IATA:III</div> </div>		



**SECTION 14. Transport information** ... / >>**14.5. Environmental hazards**

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous

**14.6. Special precautions for user**

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

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: E2

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

Product	
Point	3
Contained substance	
Point	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:

<b>Repr. 1B</b>	Reproductive toxicity, category 1B
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H360F</b>	May damage fertility.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

**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

## SECTION 16. Other information ... / &gt;&gt;

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.