
	NEW TEC ARTIPOX IMPRIMACIÓN - COMP B Code: 13060B	
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Version: 3 Revision: 31/08/2015


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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	PRODUCT IDENTIFIER:	NEW TEC ARTIPOX IMPRIMACIÓN - COMP B Code: 13060B
1.2	RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> Component B. <u>Uses advised against:</u> This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	[] Industrial [X] Professional [X] Consumers
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: ARTIC INDUSTRIAL QUIMICA, S.A. Ctra. de Gerb, 51-73 - 25600 - BALAGUER (Lleida) Phone: (+34) 902 431250 - Fax: (+34) 973 445045 <u>E-mail address of the person responsible for the safety data sheet:</u> e-mail: info@articsa.net	
1.4	EMERGENCY TELEPHONE NUMBER: (+34) 973 450717 (9:00-13:00 / 15:00-18:00 h.) (working hours)	

SECTION 2 : HAZARDS IDENTIFICATION

2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: <u>Classification in accordance with Regulation (EC) No. 1272/2008-487/2013 (CLP):</u> WARNING: Skin Irrit. 2:H315 Eye Irrit. 2:H319 Skin Sens. 1:H317					
	Danger class <u>Physicochemical:</u> Not classified <u>Human health:</u>  <u>Environment:</u> Not classified	Classification of the substance Skin Irrit. 2:H315 Eye Irrit. 2:H319 Skin Sens. 1:H317	Cat. Cat.2 Cat.2 Cat.1	Routes of exposure Skin Eyes Skin	Target organs Skin Eyes Skin	Effects Irritation Irritation Allergy
Full text of hazard statements mentioned is indicated in section 16.						

2.2	LABEL ELEMENTS:  This product is labelled with the signal word WARNING in accordance with Regulation (EC) No. 1272/2008-487/2013 (CLP)					
	<u>Hazard statements:</u> H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. <u>Precautionary statements:</u> P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280B Wear protective gloves and eye protection . P303+P361+P353-P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical attention. P501b Dispose of contents/container to hazardous or special waste collection point. <u>Supplementary statements:</u> None. <u>Hazardous ingredients:</u> Epoxy resin (average molecular weight ~1000)					

2.3	OTHER HAZARDS: Hazards which do not result in classification but which may contribute to the overall hazards of the substance: <u>Other physicochemical hazards:</u> No other relevant adverse effects are known. <u>Other adverse human health effects:</u> No other relevant adverse effects are known. <u>Other negative environmental effects:</u> It is not considered a danger to the environment.					
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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **SUBSTANCES:**
This product is a substance in aqueous solution.
Chemical description:
Solution of epoxy resin (average molecular weight ~1000) in aqueous media.

INGREDIENTS:

50 < 100 %	Water CAS: 7732-18-5 , EC: 231-791-2	REACH: Exempt	Not classified
25 < 50 %	Epoxy resin (average molecular weight ~1000) CAS: 25036-25-3 , List No. 607-500-3* CLP: Warning: Skin Irrit. 2:H315 Eye Irrit. 2:H319 Skin Sens. 1:H317		Autoclassified

Impurities:
Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:
None

Reference to other sections:
For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 15/06/2015.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSIST ENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
Not available.

3.2 **MIXTURES:**
Not applicable (substance).

SECTION 4 : FIRST AID MEASURES

4.1 **DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**

4.2 Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Normally does not produce symptoms.	Remove the patient out of the contaminated area into the fresh air.
Skin: 	Skin contact causes redness.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. In the case of skin reddening or rashes, contact a doctor immediately.
Eyes: 	Contact with the eyes produces redness and pain.	# Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Remove contact lenses after the first 1-2 minutes and continue washing for a few minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
Ingestion:	If swallowed, may cause irritation of the mouth, throat and esophagus.	Drink large quantities of water, preferably with a suspension of medicinal active carbon. Do not induce vomiting. Should vomiting occur spontaneously, keep free respiratory tract. Keep the patient at rest.

4.3 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**
Notes to physician: Practical care. Treatment is based on doctor's criteria and patient's reactions.
Antidotes and contraindications: There is no specific antidote.



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SECTION 5 : FIRE-FIGHTING MEASURES

- 5.1 **EXTINGUISHING MEDIA:**
In the case of fire in the surroundings, all extinguishing agents are allowed.
- 5.2 **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health. Carbon monoxide is very toxic by inhalation. Carbon dioxide, in sufficient concentrations, may behave as a suffocating gas.
- 5.3 **ADVICE FOR FIREFIGHTERS:**
Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

- 6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**
Avoid direct contact with this product.
- 6.2 **ENVIRONMENTAL PRECAUTIONS:**
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
- 6.3 **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**
Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Keep the remains in a closed container.
- 6.4 **REFERENCE TO OTHER SECTIONS:**
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

- 7.1 **PRECAUTIONS FOR SAFE HANDLING:**
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
It is possible the explosion if mixed with the air in powdered or granular form.
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**
Prevent unauthorized access. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of store : According to current legislation.
Maximum storage period : 24. months
Temperature interval : min: 5. °C, max: 40. °C (recommended).
Incompatible materials:
Keep away from oxidizing agents, acids, alkalis, amines.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:
Not applicable.
- 7.3 **SPECIFIC END USES:**
For the use of this product do not exist particular recommendations apart from that already indicated.



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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES :
Not established.

BIOLOGICAL LIMIT VALUES:
Not established

DERIVED NO-EFFECT LEVEL (DNEL):
Derived no-effect level, workers:
Not available
Derived no-effect level, general population:
Not available

PREDICTED NO-EFFECT CONCENTRATION (PNEC):
Not available

8.2 EXPOSURE CONTROLS:

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system:
Avoid the inhalation of product.
- **Mask:** No.

Protection of eyes and face:
It is recommended to dispose of water taps or sources with clean water close to the working area.
- **Goggles:**
Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
- **Face shield:** No.

Protection of hands and skin:
It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.
- **Gloves:**
Gloves resistant against chemicals (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. If used in solution or mixed with other substances, or under conditions different from the EN374, please contact the supplier of gloves approved. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.
- **Boots:** No.
- **Apron:** No.
- **Clothing:** Advisable.

Thermal hazards:
Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment.
Spills on the soil: Prevent contamination of soil.
Spills in water: Do not allow to escape into drains, sewers or water courses.
Emissions to the atmosphere: Not applicable.





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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u> - Physical state : Liquid. - Colour : Colourless. - Odour : Odourless - Odour threshold : Not applicable (odourless).</p> <p><u>pH-value</u> - pH : 7.5 ± 0.5 at 20°C</p> <p><u>Change of state</u> - Melting point : Not available - Initial boiling point : Not applicable</p> <p><u>Density</u> - Vapour density : < 1 (lighter than air). - Relative density : 1.067 at 20/4°C Relative water</p> <p><u>Stability</u> - Decomposition temperature : Not available</p> <p><u>Viscosity:</u> - Viscosity (flow time) : 20. sec.FC4 23°C</p> <p><u>Volatility:</u> - Vapour pressure : 17.5 mmHg at 20°C - Vapour pressure : 12.3 kPa at 50°C</p> <p><u>Solubility(ies)</u> - Solubility in water: : Miscible - Solubility in oils and fats: : Not available</p> <p><u>Flammability:</u> - Flash point : Not flammable - Autoignition temperature : Not applicable (do not support combustion).</p> <p><u>Explosive properties:</u> In the molecule there is no chemical groups associated with explosive properties.</p> <p><u>Oxidizing properties:</u> Not classified as oxidizing product.</p>
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9.2	<p>OTHER INFORMATION:</p> <p>- Heat of combustion : 3268. Kcal/kg</p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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SECTION 10 : STABILITY AND REACTIVITY

10.1	<p>REACTIVITY: <u>Corrosivity to metals:</u> It is not corrosive to metals. <u>Pyrophorical properties:</u> It is not pyrophoric.</p>
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10.2	<p>CHEMICAL STABILITY: Stable under recommended storage and handling conditions.</p>
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10.3	<p>POSSIBILITY OF HAZARDOUS REACTIONS: Possible dangerous reaction with oxidizing agents, acids, alkalis, amines.</p>
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10.4	<p>CONDITIONS TO AVOID: <u>Heat:</u> Keep away from sources of heat. <u>Light:</u> If possible, avoid direct contact with sunlight. <u>Air:</u> Not applicable. <u>Pressure:</u> Not applicable. <u>Shock:</u> Not applicable.</p>
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10.5	<p>INCOMPATIBLE MATERIALS: Keep away from oxidizing agents, acids, alkalis, amines.</p>
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10.6	<p>HAZARDOUS DECOMPOSITION PRODUCTS: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</p>
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SECTION 11 : TOXICOLOGICAL INFORMATION

11.1	INFORMATION ON TOXICOLOGICAL EFFECTS:			
	ACUTE TOXICITY:			
	<u>Dose and lethal concentrations :</u> Epoxy resin (average molecular weight -1000)	<u>DL50 (OECD 401)</u> mg/kg oral > 5000. Rat	<u>DL50 (OECD 402)</u> mg/kg cutaneous 4000. Rabbit	<u>CL50 (OECD 403)</u> mg/m3.4h inhalation
	<u>INFORMATION ON LIKELY ROUTES OF EXPOSURE :Acute toxicity:</u> <u>Inhalation:</u> Not classified as a product with acute toxicity if inhaled. <u>Skin:</u> Not classified as a product with acute toxicity in contact with skin. <u>Eyes:</u> Not classified as a product with acute toxicity by eye contact. <u>Ingestion:</u> Not classified as a product with acute toxicity if swallowed.			
	<u>CORROSION / IRRITATION / SENSITISATION :</u> <u>Respiratory corrosion/irritation:</u> Not classified as a product corrosive or irritant by inhalation. <u>Skin corrosion/irritation:</u> IRRITANT: Causes skin irritation. <u>Serious eye damage/irritation:</u> IRRITANT: Causes serious eye irritation. <u>Respiratory sensitisation:</u> Not classified as a product sensitising by inhalation. <u>Skin sensitisation:</u> SENSITISING: May cause an allergic skin reaction.			
	<u>ASPIRATION HAZARD:</u> Not classified as a product hazardous by aspiration.			
	<u>SPECIFIC TARGET ORGANS TOXICITY (STOT):</u> Not classified as a dangerous product for target organs.			
	<u>CMR EFFECTS:</u> <u>Carcinogenic effects:</u> Is not considered as a carcinogenic product. <u>Genotoxicity:</u> Is not considered as a mutagenic product. <u>Toxicity for reproduction:</u> Do not harm fertility. Do not harm the fetus developing. <u>Effects via lactation:</u> Not classified as a hazardous product for children breast-fed.			
	<u>DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:</u> <u>Routes of exposure:</u> Not available. <u>Short-term exposure:</u> Irritating to eyes. Irritating to skin. May cause sensitization by skin contact. <u>Long-term or repeated exposure:</u> Not available.			
	<u>INTERACTIVE EFFECTS:</u> Not available.			
	<u>INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:</u> <u>Dermal absorption:</u> Not available. <u>Basic toxicokinetics:</u> Not available.			
	<u>ADDITIONAL INFORMATION:</u> Not available.			

SECTION 12 : ECOLOGICAL INFORMATION

12.1	TOXICITY: <u>Acute toxicity in aquatic environment:</u> Not available			
12.2	PERSISTENCE AND DEGRADABILITY: <u>Biodegradability:</u> Not readily biodegradable. Not readily biodegradable but it is anticipated that the material will slowly degrade in the environment.			
	<u>Aerobic biodegradation</u> Epoxy resin (average molecular weight -1000)	<u>DQO</u> mgO2/g	<u>%DBO/DQO</u> 5 days 14 days 28 days	<u>Biodegradability</u> Not easy
	<u>Hydrolysis:</u> Hydrolysis is not an important degradation process under normal environmental conditions. <u>Photodegradability:</u> Not available.			
12.3	BIOACCUMULATIVE POTENTIAL: Not bioaccumulable.			
	<u>Bioaccumulation</u> Epoxy resin (average molecular weight -1000)	<u>logPow</u>	<u>BCF</u> L/kg	<u>Potential</u> No bioaccumulable
12.4	MOBILITY IN SOIL: Not available.			
12.5	RESULTS OF PBT AND VPVBASESSMENT: Annex XIII of Regulation (EC) no. 1907/2006: Not available.			
12.6	OTHER ADVERSE EFFECTS: <u>Ozone depletion potential:</u> Not applicable. <u>Photochemical ozone creation potential:</u> Not applicable. <u>Earth global warming potential:</u> Not available. <u>Endocrine disrupting potential:</u> No.			



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SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC-2005/20/EC, Decision 2000/532/EC:
Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:
Authorised landfill in accordance with local regulations.

SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:
14.4

Transport by road (ADR 2015) and Transport by rail (RID 2015):
Not reglamented

Transport by sea (IMDG 36-12):
Not reglamented

Transport by air (ICAO/IATA 2014):
Not reglamented

Transport by inland waterways (ADN):
Free.

14.5 ENVIRONMENTAL HAZARDS:
Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this material safety data sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Tactile warning of danger: Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

VOC information on the label:
Contains VOC max. 0.1 g/l - The limit value 2004/42/CE-IIA cat.j) for the product ready for use is VOC max. 140. g/l (2010).

OTHER REGULATIONS:
Not available

15.2 CHEMICAL SAFETY ASSESSMENT:
Not available.



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SECTION 16 : OTHER INFORMATION

16.1 [TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:](#)
[Hazard statements according the Regulation \(EC\) No. 1272/2008-487/2013 \(CLP\), Annex III:](#)
H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

[ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:](#)

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

[MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:](#)

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>

[ABBREVIATIONS AND ACRONYMS:](#)

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Letal dose, 50 percent.
- LC50: Letal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangeous goods by road.
- RID: Regulations concerning the international transport of dangeous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organizatio n.

[MATERIAL SAFETY DATA SHEET REGULATIONS:](#)

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

[HISTORY:](#)[Revision:](#)

Version: 2 31/05/2015
Version: 3 31/08/2015

[Modifications with respect to the previous Material Safety Data Sheet.](#)

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.