

AE00191 - Uronate dehydrogenase (EC 1.1.1.203), A. tumefaciens

	ION 1: IDENTIFICA	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1		
	Product identifier:	AE00191 - Uronate dehydrogenase (EC 1.1.1.203), A. tumefaciens Ammonium sulphate
	CAS:	7783-20-2
	EC:	231-984-1
	Index:	Non-applicable
	REACH:	01-2119455044-46-XXXX
1.2	Relevant identified	uses of the substance or mixture and uses advised against:
	Relevant uses: Labora	atory. For professional user only.
	Uses advised against:	: All uses not specified in this section or in section 7.3
1.3	Details of the supp	lier of the safety data sheet:
	NZYTech Estrada do Paco do Lu 1649-038 Lisboa - Lis info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c boa - Portugal
1.4	Emergency telepho	 ane number: +351 213 643 514 bonday to Friday 9.00 am to 18.00 bonday to Friday

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319 Repr. 1B: Reproductive toxicity, Category 1B, H360 Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation Repr. 1B: H360 - May damage fertility or the unborn child Skin Irrit. 2: H315 - Causes skin irritation

Precautionary statements:

P201: Obtain special instructions before use
P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313: IF exposed or concerned: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively
Substances that contribute to the classification

Imidazole (CAS: 288-32-4)



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SECTION 2: HAZARDS IDENTIFICATION (continued)

Additional Labelling (Annex XVII, REACH):

Restricted to professional users

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification			
CAS:	7783-20-2	Ammonium sulphate	(1) Not cla	ssified		
	231-984-1 Non-applicable 01-2119455044-46- XXXX	Regulation 1272/2008			25 - <50 %	
CAS:	288-32-4	Imidazole ⁽²⁾	Self-cla	ssified		
EC: Index: REACH:	206-019-2 Non-applicable 01-2119485825-24- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 1B: H360; Skin Corr. 1C: H314 -	ð 🎸	1 - <2,5 %	

(1) Main component

⁽²⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:



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SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.



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SECTION 7: HANDLING AND STORAGE (continued)

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

- A.- Technical measures for storage
 - Store in a cool, dry, well-ventilated location
- B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Ammonium sulphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7783-20-2	Dermal	Non-applicable	Non-applicable	42,667 mg/kg	Non-applicable
EC: 231-984-1	Inhalation	Non-applicable	Non-applicable	11,167 mg/m ³	Non-applicable
Imidazole	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 288-32-4	Dermal	25 mg/kg	Non-applicable	1,5 mg/kg	Non-applicable
EC: 206-019-2	Inhalation	5583 mg/m ³	Non-applicable	10,6 mg/m ³	Non-applicable

DNEL (General population):

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Ammonium sulphate	Oral	Non-applicable	Non-applicable	6,4 mg/kg	Non-applicable
CAS: 7783-20-2	Dermal	Non-applicable	Non-applicable	12,8 mg/kg	Non-applicable
EC: 231-984-1	Inhalation	Non-applicable	Non-applicable	1,667 mg/m ³	Non-applicable

PNEC:

Identification				
Ammonium sulphate	STP	16,18 mg/L	Fresh water	0,312 mg/L
CAS: 7783-20-2	Soil	62,6 mg/kg	Marine water	0,0312 mg/L
EC: 231-984-1	Intermittent	0,53 mg/L	Sediment (Fresh water)	0,063 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Imidazole	STP	10 mg/L	Fresh water	0,13 mg/L
CAS: 288-32-4	Soil	0,0425 mg/kg	Marine water	0,013 mg/L
EC: 206-019-2	Intermittent	1,3 mg/L	Sediment (Fresh water)	0,336 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.



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B Respiratory prot	ection				
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory respiratory tract	Filter mask for gases and vapours		EN 405:2001+A1:2009	Ċ	place when there is a taste or smell of th contaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C Specific protection	on for the hands		•		
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	manuf the p	The Breakthrough Time indicated by the facturer must exceed the period during w product is being used. Do not use protect ms after the product has come into conta with skin.
D Ocular and facia	l protection		•		
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory face protection	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018		a daily and disinfect periodically according nanufacturer´s instructions. Use if there risk of splashing.
E Body protection					
Pictogram	PPE	Labelling	CEN Standard		Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994		r professional use only. Clean periodicallor ording to the manufacturer's instruction
Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Re	eplace boots at any sign of deterioration.
F Additional emerge	jency measures				
Emergency me	easure S	Standards	Emergency meas	ure	Standards
Emergency sl	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:20	011 Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2013
spillage of both the Volatile organic o	the community legislation product and its container.	For additional i	nformation see subsection		mmended to avoid environmental



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Date of compilation: 12/08/2020 Version: 1 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. **Appearance:** Physical state at 20 °C: Liquid Appearance: Not available Colour: Not available Odour: Not available Odour threshold: Non-applicable * Volatility: Boiling point at atmospheric pressure: 100 °C 2350 Pa Vapour pressure at 20 °C: Vapour pressure at 50 °C: 12381,01 Pa (12,38 kPa) Evaporation rate at 20 °C: Non-applicable * **Product description:** Density at 20 °C: 1280,3 kg/m³ Relative density at 20 °C: 1,28 Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Concentration: Non-applicable * pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Solubility properties: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable * Explosive properties: Non-applicable * Oxidising properties: Non-applicable * Flammability: Non Flammable (>60 °C) Flash Point: Flammability (solid, gas): Non-applicable * 480 °C Autoignition temperature: Lower flammability limit: Non-applicable * Upper flammability limit: Non-applicable * **Explosive:** Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * 9.2 Other information: Surface tension at 20 °C: Non-applicable * Refraction index: Non-applicable * *Not relevant due to the nature of the product, not providing information property of its hazards.



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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: May damage fertility or the unborn child
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as
 - dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acut	Genus	
Ammonium sulphate	LD50 oral	2840 mg/kg	Rat
CAS: 7783-20-2	LD50 dermal	>2000 mg/kg	
EC: 231-984-1	LC50 inhalation	>5 mg/L (4 h)	
Imidazole	LD50 oral	500 mg/kg (ATEi)	
CAS: 288-32-4	LD50 dermal	>2000 mg/kg	
EC: 206-019-2	LC50 inhalation	>5 mg/L (4 h)	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Ammonium sulphate	LC50	36.7 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 7783-20-2	EC50	433 mg/L (50 h)	Daphnia magna	Crustacean
EC: 231-984-1	EC50	Non-applicable		
Imidazole	LC50	240 mg/L (48 h)	Leuciscus idus	Fish
CAS: 288-32-4	EC50	341.5 mg/L (48 h)	Daphnia magna	Crustacean
EC: 206-019-2	EC50	130 mg/L (72 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential		
Ammonium sulphate	BCF		
CAS: 7783-20-2	Pow Log	-5.1	
EC: 231-984-1	Potential		

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS



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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP10 Toxic for reproduction

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1 14.2	UN number: UN proper shipping name:	Non-applicable Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
	Packing group:	Non-applicable	
14.5		No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	
	Tunnel restriction code:	Non-applicable	
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
14.7		Non-applicable	
	to Annex II of Marpol and the IBC Code:		
Transport of dangerous goods by sea:			
With regard to IMDG 39-18:			
14.1	UN number:	Non-applicable	
14.2		Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group:	Non-applicable	
	Environmental hazards:	No	
14.6			
	Special regulations:	Non-applicable	
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	
14.7		Non-applicable	
	to Annex II of Marpol and		
	the IBC Code:		
Transport of dangerous goods by air:			



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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

Texts of the legislative phrases mentioned in section 2:



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SECTION 16: OTHER INFORMA	ATION (continued)
H315: Causes skin irritation H360: May damage fertility o H319: Causes serious eye irri	
Texts of the legislative ph	nrases mentioned in section 3:
	t refer to the product itself; they are present merely for informative purposes and refer to the
CLP Regulation (EC) No 1	272/2008:
Acute Tox. 4: H302 - Harmfu	Il if swallowed
Eye Dam. 1: H318 - Causes s	serious eye damage
Repr. 1B: H360 - May damag	
	s severe skin burns and eye damage
Advice related to training	:
	nded in order to prevent industrial risks for staff using this product and to facilitate their ation of this safety data sheet, as well as the label on the product.
Principal bibliographical s	sources:
http://echa.europa.eu http://eur-lex.europa.eu	
Abbreviations and acrony	'ms:
ADR: European agreement co IMDG: International maritime	oncerning the international carriage of dangerous goods by road e dangerous goods code
IATA: International Air Transp	
ICAO: International Civil Avia	
COD: Chemical Oxygen Dema	
BOD5: 5-day biochemical oxy BCF: Bioconcentration factor	
LD50: Lethal Dose 50	
LC50: Lethal Concentration 5	in line in the second se
EC50: Effective concentration 5	
Log-POW: Octanol-water part	
Koc: Partition coefficient of or	

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.