

BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212

		ICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier	: BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212
		1-butanol
	CAS:	71-36-3
	EC:	200-751-6
	Index:	603-004-00-6
	REACH:	01-2119484630-38-XXXX
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:
	Relevant uses: Lal	poratory. For professional user only.
	Uses advised agai	nst: All uses not specified in this section or in section 7.3
1.3	Details of the sup	plier of the safety data sheet:
		HEMOPHARMA FRANCE
	82 Avenue du 85e 58200 COSNE SU	de ligne R LOIRE - FRANCE
	Phone.: +3338627	
	admin@biochemo www.biochemopha	
1.4		hone number: +33.3.86.27.24.96
SEC	TION 2: HAZARE	DS IDENTIFICATION
2.1	Classification of	the substance or mixture:
	CLP Regulation (EC) nº 1272/2008:
	Classification of th	is product has been carried out in accordance with CLP Regulation (EC) nº 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) nº 1272/2008:

Danger



Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed Eye Dam. 1: H318 - Causes serious eye damage Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P370+P378: In case of fire: Use ABC powder extinguisher to extinguish. P403+P233: Store in a well-ventilated place. Keep container tightly closed P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively **Other hazards:**

2.3 Other hazards:

Non-applicable



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Chemical substance

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification		Concentration
CAS: 71-36-3	1-butanol		Self-classified	
EC: 200-751-6 Index: 603-004-00-6 REACH01-2119484630-38- : XXXX		Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger		100 %

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

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, as 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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap 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 individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:



SECTION 5: FIREFIGHTING MEASURES (continued)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

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

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C

Maximum time: 6 Months

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.



BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

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

DNEL (Workers):

			Short e	xposure	Long ex	kposure
Identi	fication		Systemic	Local	Systemic	Local
1-butanol		Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 71-36-3		Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-751-6		Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m³

DNEL (General population):

			Short e	xposure	Long ex	kposure
	Identification		Systemic	Local	Systemic	Local
1-butanol		Oral	Non-applicable	Non-applicable	3,125 mg/kg	Non-applicable
CAS: 71-36-3		Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-751-6		Inhalation	Non-applicable	Non-applicable	Non-applicable	55 mg/m³

PNEC:

Identification				
1-butanol	STP	2476 mg/L	Fresh water	0,082 mg/L
CAS: 71-36-3	Soil	0,015 mg/kg	Marine water	0,0082 mg/L
EC: 200-751-6	Intermittent	2,25 mg/L	Sediment (Fresh water)	0,178 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0178 mg/kg

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 Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection 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.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

	Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.	
D	D Ocular and facial protection					

splash/projections.	Pictogram	PPE	Labelling	CEN Standard	Remarks
protection	Mandatory face		CAT II		Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing	CAT III	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2008/AC:2009 EN 1149-5:2008	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistan properties		EN 13287:2008 EN ISO 20345:2011	Replace boots at any sign of deterioration
F Additional emerg	ency measures	mno		3
Emergency me	asure	Standards	Emergency measu	re Standards
Emergency sh	ISC	NSI Z358-1) 3864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002
Environmental exp	osure controls:			
In accordance with the	he community legislation product and its container		on of the environment it is r information see subsection	recommended to avoid environmenta 7.1.D
Volatile organic co	•			
U U	tive 2010/75/EU, this pro	oduct has the fol	lowing characteristics:	
U U	tive 2010/75/EU, this pro 100 % weight		lowing characteristics:	
With regard to Direct	100 % weight		lowing characteristics:	

Average molecular weight: 74,1 g/mol

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: Alcohol Odour threshold: Non-applicable * Volatility: 118 °C Boiling point at atmospheric pressure: Vapour pressure at 20 °C: 945 Pa 5790 Pa (6 kPa) Vapour pressure at 50 °C:

Evaporation rate at 20 °C:	Non-applicable *	
Product description:		
Density at 20 °C:	810 kg/m³	
Relative density at 20 °C:	0,81	
Dynamic viscosity at 20 °C:	2,95 cP	
Kinematic viscosity at 20 °C:	3,64 cSt	
Kinematic viscosity at 40 °C:	Non-applicable *	
Concentration:	Non-applicable *	
*Not relevant due to the nature of the product,	not providing information property of its hazards.	



SEC	TION 9: PHYSICAL AND CHEMICAL PRO	DPERTIES (continued)
	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:	-90 °C
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	29 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	343 °C
	Lower flammability limit:	1,4 % Volume
	Upper flammability limit:	11,2 % Volume
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	g information property of its hazards.

).1	Reactivity:				
	No hazardous reactions are	expected because the	product is stable under reco	ommended storage cond	litions. See section 7.
2	Chemical stability:				
	Chemically stable under the	e conditions of storage,	handling and use.		
-	Possibility of bazardous	pactions:			
3	Possibility of hazardous r	eactions.			
			s that lead to excessive tem	peratures or pressure a	re not expected.
	Under the specified condition		s that lead to excessive tem	operatures or pressure a	re not expected.
.4	Under the specified condition Conditions to avoid:	ons, hazardous reaction		operatures or pressure a	re not expected.
.4	Under the specified condition Conditions to avoid: Applicable for handling and	ons, hazardous reaction storage at room tempe			
.4	Under the specified condition Conditions to avoid:	ons, hazardous reaction		nperatures or pressure an Sunlight	re not expected.
.4	Under the specified condition Conditions to avoid: Applicable for handling and	ons, hazardous reaction storage at room tempe	rature:		
.4	Under the specified condition Conditions to avoid: Applicable for handling and Shock and friction	ons, hazardous reaction storage at room tempe Contact with air	rature:	Sunlight	Humidity
.4	Under the specified condition Conditions to avoid: Applicable for handling and Shock and friction Not applicable	ons, hazardous reaction storage at room tempe Contact with air	rature:	Sunlight	Humidity

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 recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure: A.- Ingestion (acute effect):



TION 11: TOXICOLOGICAL INFORMATION (conti	nued)					
 Acute toxicity : The consumption of a considerable of vomiting. Corrosivity/Irritability: The consumption of a consider and vomiting. 						
B- Inhalation (acute effect):						
 Acute toxicity : Based on available data, the classific as dangerous for inhalation. For more information see s Corrosivity/Irritability: Causes irritation in respiratory respiratory passages. 	section 3.					
C- Contact with the skin and the eyes (acute effect):						
 Contact with the skin: Produces skin inflammation. Contact with the eyes: Produces serious eye damag CMR effects (carcinogenicity, mutagenicity and toxicity 						
 Carcinogenicity: Based on available data, the classifi as dangerous for the effects mentioned. For more inforring Mutagenicity: Based on available data, the classification dangerous for this effect. For more information see sec Reproductive toxicity: Based on available data, the classified as dangerous for this effect. For more information Sensitizing effects: 	mation see section 3. tion criteria are not met, as it doe tion 3. lassification criteria are not met, a	s not contain substanc	es classified			
 Respiratory: Based on available data, the classificati dangerous with sensitising effects. For more information Cutaneous: Based on available data, the classification dangerous for this effect. For more information see sec F- Specific target organ toxicity (STOT) - single exposure: 	n see section 3. on criteria are not met, as it does tion 3.					
Causes irritation in respiratory passages, which is norm	ally reversible and limited to the	upper respiratory pass	ages.			
G- Specific target organ toxicity (STOT)-repeated exposure	e:					
 Specific target organ toxicity (STOT)-repeated exposit does not contain substances classified as dangerous Skin: Based on available data, the classification crite dangerous for this effect. For more information see sec H- Aspiration hazard: 	for this effect. For more informati ria are not met, as it does not co	on see section 3.				
Based on available data, the classification criteria are n this effect. For more information see section 3.	ot met, as it does not contain sub	ostances classified as o	dangerous fo			
ner information:						
Non-applicable						
Specific toxicology information on the substances:						
Identification	Ad	cute toxicity	Genus			
1-butanol	LD50 oral	2292 mg/kg	Rat			
CAS: 71-36-3	LD50 dermal	3400 mg/kg	Rabbit			
EC: 200-751-6	LC50 inhalation	24,66 mg/L (4 h)	Rat			

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Identification		Acute toxicity		Species	Genus
1-butanol		LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
CAS: 71-36-3		EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-751-6		EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

	Identification	Degradability		Biodegradability	
	1-butanol	BOD5	1.71 g O2/g	Concentration	Non-applicable
	CAS: 71-36-3	COD	2.46 g O2/g	Period	19 days
	EC: 200-751-6	BOD5/COD	0.69	% Biodegradable	98 %
12.3	Bioaccumulative potential:				



BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Bioaccumulation potential	
1-butanol		BCF	1
CAS: 71-36-3		Pow Log	0.88
EC: 200-751-6		Potential	Low

12.4 Mobility in soil:

Identification		Absorption/desorption		Volatility	
1-butanol		Кос	2.44	Henry	5,39E-2 Pa⋅m³/mol
CAS: 71-36-3		Conclusion	Very High	Dry soil	Yes
EC: 200-751-6		Surface tension	2,567E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
10	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):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity

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:

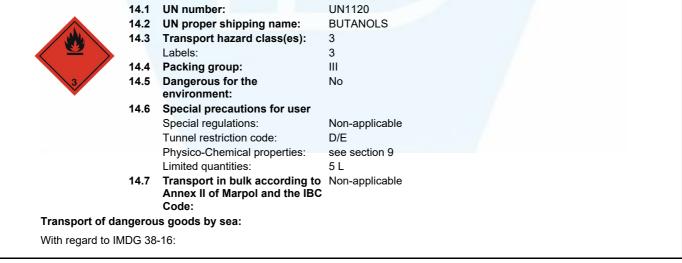
In accordance with Annex II of Regulation (EC) nº1907/2006 (REACH) the community or state provisions related to waste management are stated

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 2015 and RID 2015:





BIOCHEM - 1-BUTANOL - ANALYTICAL REAGENT 20212

SECTION 14: TRANS	SPOR ⁻	T INFORMATION (continued)	
	14.1 14.2	UN number: UN proper shipping name:	UN1120 BUTANOLS
		Transport hazard class(es):	3
	14.4	Labels: Packing group:	3
3	14.5		No
•	14.6		
		Special regulations: EmS Codes:	223 F-E, S-D
		Physico-Chemical properties:	see section 9
		Limited quantities:	5L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	ngerou	s goods by air:	
With regard to IA	TA/ICA	O 2017:	
	14.1	UN number:	UN1120
she	14.2	UN proper shipping name:	BUTANOLS
	14.3	Transport hazard class(es):	3
		Labels:	3
3	14.4	55.4	
	14.5	Dangerous for the environment:	No
	14.6	Special precautions for user Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

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) 1907/2006 (REACH): Non-applicable

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

Regulation (EC) 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

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

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 data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, 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:
H226: Flammable liguid and vapour
H302: Harmful if swallowed
H315: Causes skin irritation
H318: Causes serious eye damage
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
Texts of the legislative phrases mentioned in section 3:
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the
individual components which appear in section 3
CLP Regulation (EC) nº 1272/2008:
Acute Tox. 4: H302 - Harmful if swallowed Eye Dam. 1: H318 - Causes serious eye damage
Flam. Lig. 3: H226 - Flammable liguid and vapour
Skin Irrit. 2: H315 - Causes skin irritation
STOT SE 3: H335 - May cause respiratory irritation
STOT SE 3: H336 - May cause drowsiness or dizziness
Advice related to training:
Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehensior and interpretation of this safety data sheet, as well as the label on the product.
Principal bibliographical sources:
http://esis.jrc.ec.europa.eu
http://echa.europa.eu
http://eur-lex.europa.eu
Abbreviations and acronyms:
ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol–water partition coefficient Koc: Partition coefficient of organic carbon

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. - END OF SAFETY DATA SHEET -

Version: 1