

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

### **1.1 Product identifier:** BESA-VAL

### Solvent based Mixing System Products

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

Relevant uses: Liquid paint. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

#### **1.3** Details of the supplier of the safety data sheet:

BERNARDO ECENARRO, S.A. Ugarte Industrialdea, 147 20720 Azkoitia - Gipuzkoa - Spain Phone.: +34 943 74 28 00 - Fax: +34 943 74 06 03 msds@besa.es http://www.besa.es

**1.4 Emergency telephone number:** +34 943742800 (8:00-13:00) (14:30-17:30)

# SECTION 2: HAZARDS IDENTIFICATION \*\*

### 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.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1A: Sensitisation, skin, Category 1A, H317 STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

### 2.2 Label elements:

### CLP Regulation (EC) No 1272/2008:

Warning



#### Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1A: H317 - May cause an allergic skin reaction STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral) STOT SE 3: H335 - May cause respiratory irritation

#### **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 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 P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment **Supplementary information:** Contains Butanone oxime

# Substances that contribute to the classification

Xylene; 2-butoxyethanol; Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%); Cobalt bis(2-ethylhexanoate)

### 2.3 Other hazards:

\*\* Changes with regards to the previous version



# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

**Chemical description:** Mixture composed of additives, aggregates, pigments, plasticizers and resins in solvents **Components:** 

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

	Identification		Chemical name/Classification	Concentration	
CAS:	1330-20-7	Xylene□¹□	Self-classified		
	C: 215-535-7 ndex: 601-022-00-9 REACH: 01-2119488216-32- XXXX	022-00-9 Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3:   119488216-32- Regulation 1272/2008			
CAS:	111-76-2	2-butoxyethanol 1	ATP CLP00		
	203-905-0 603-014-00-0 01-2119475108-36- XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	1 - <2,5 %	
CAS:	64742-95-6	Hydrocarbons, C9, ar	romatics (EC 200-753-7 <0,1%)□1□ Self-classified		
	918-668-5 Non-applicable 01-2119455851-35- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: () () () () () () () () () () () () ()	1 - <2,5 %	
CAS:	96-29-7	Butanone oxime	ATP CLP00		
	202-496-6 616-014-00-0 01-2119539477-28- XXXX	Regulation 1272/2008	Acute Tox. 4: H312; Carc. 2: H351; Eye Dam. 1: H318; Skin Sens. 1: H317 - 🗘 🐼 🕹	0,5 - <1 %	
CAS:	108-10-1	4-methylpentan-2-one□2□ ATP CLP00			
	203-550-1 606-004-00-4 01-2119473980-30- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H335; EUH066 - Danger	0,5 - <1 %	
CAS:	136-51-6	calcium bis(2-ethylh	exanoate) 🗆 1 🗌 Self-classified		
Index: I REACH: (	205-249-0 Non-applicable 01-2119978297-19- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Repr. 2: H361d - Danger	0,25 - <0,5 %	
CAS:	34590-94-8	Dipropylene Glycol Methyl Ether 2 Not classified			
Index: REACH:	252-104-2 Non-applicable 01-2119450011-60- XXXX	Regulation 1272/2008		<0,2 %	
CAS:	136-52-7	Cobalt bis(2-ethylhe	xanoate) 1 Self-classified		
	205-250-6 Non-applicable 01-2119524678-29- XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360; Skin Sens. 1A: H317 - Danger	<0,2 %	

 $\square$ <sup>1</sup> $\square$  Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830  $\square$ <sup>2</sup> $\square$  Substance with a Union workplace exposure limit

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

\*\* Changes with regards to the previous version

# 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:** 



# SECTION 4: FIRST AID MEASURES (continued)

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 water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for 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:

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 (CO $\Box$ ). IT IS RECOMMENDED NOT 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. 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 inert medium. 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 2014/34/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 ºC
Maximum Temp.:	30 °C
Maximum time:	24 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.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

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

Identification	Environmental limits			
Dipropylene Glycol Methyl Ether	IOELV (8h)	50 ppm	308 mg/m <sup>3</sup>	
CAS: 34590-94-8 EC: 252-104-2	IOELV (STEL)			
Xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>	
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>	
4-methylpentan-2-one	IOELV (8h)	20 ppm	83 mg/m <sup>3</sup>	
CAS: 108-10-1 EC: 203-550-1	IOELV (STEL)	50 ppm	208 mg/m <sup>3</sup>	
2-butoxyethanol	IOELV (8h)	20 ppm	98 mg/m <sup>3</sup>	
CAS: 111-76-2 EC: 203-905-0	IOELV (STEL)	50 ppm	246 mg/m <sup>3</sup>	

#### **DNEL (Workers):**

		Short	exposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	663 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable



# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	150 mg/m <sup>3</sup>	Non-applicable
Butanone oxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 96-29-7	Dermal	2,5 mg/kg	Non-applicable	1,3 mg/kg	Non-applicable
EC: 202-496-6	Inhalation	Non-applicable	Non-applicable	9 mg/m <sup>3</sup>	3,33 mg/m <sup>3</sup>
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	11,8 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	208 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>	83 mg/m <sup>3</sup>	83 mg/m <sup>3</sup>
calcium bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 136-51-6	Dermal	Non-applicable	Non-applicable	5,67 mg/kg	Non-applicable
EC: 205-249-0	Inhalation	Non-applicable	Non-applicable	39,98 mg/m <sup>3</sup>	Non-applicable
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	65 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	310 mg/m <sup>3</sup>	Non-applicable
Cobalt bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 136-52-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 205-250-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,2351 mg/m <sup>3</sup>

# DNEL (General population):

	Short	exposure	Long exposure		
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applicable
CAS: 111-76-2	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	426 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	49 mg/m <sup>3</sup>	Non-applicable
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	32 mg/m <sup>3</sup>	Non-applicable
Butanone oxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 96-29-7	Dermal	1,5 mg/kg	Non-applicable	0,78 mg/kg	Non-applicable
EC: 202-496-6	Inhalation	Non-applicable	Non-applicable	2,7 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	Non-applicable	Non-applicable	14,7 mg/m <sup>3</sup>	Non-applicable
calcium bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	2,83 mg/kg	Non-applicable
CAS: 136-51-6	Dermal	Non-applicable	Non-applicable	2,83 mg/kg	Non-applicable
EC: 205-249-0	Inhalation	Non-applicable	Non-applicable	9,86 mg/m <sup>3</sup>	Non-applicable
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	37,2 mg/m <sup>3</sup>	Non-applicable
Cobalt bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	0,0558 mg/kg	Non-applicable
CAS: 136-52-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 205-250-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,037 mg/m <sup>3</sup>
PNEC:					

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg



# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
2-butoxyethanol	STP	463 mg/L	Fresh water	8,8 mg/L
CAS: 111-76-2	Soil	3,13 mg/kg	Marine water	0,88 mg/L
EC: 203-905-0	Intermittent	9,1 mg/L	Sediment (Fresh water)	34,6 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	Non-applicable
Butanone oxime	STP	177 mg/L	Fresh water	0,256 mg/L
CAS: 96-29-7	Soil	Non-applicable	Marine water	Non-applicable
EC: 202-496-6	Intermittent	0,118 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
4-methylpentan-2-one	STP	27,5 mg/L	Fresh water	0,6 mg/L
CAS: 108-10-1	Soil	1,3 mg/kg	Marine water	0,06 mg/L
EC: 203-550-1	Intermittent	1,5 mg/L	Sediment (Fresh water)	8,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,83 mg/kg
calcium bis(2-ethylhexanoate)	STP	71,7 mg/L	Fresh water	0,36 mg/L
CAS: 136-51-6	Soil	1,06 mg/kg	Marine water	0,036 mg/L
EC: 205-249-0	Intermittent	0,493 mg/L	Sediment (Fresh water)	6,37 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,637 mg/kg
Dipropylene Glycol Methyl Ether	STP	4168 mg/L	Fresh water	19 mg/L
CAS: 34590-94-8	Soil	2,74 mg/kg	Marine water	1,9 mg/L
EC: 252-104-2	Intermittent	190 mg/L	Sediment (Fresh water)	70,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,02 mg/kg
Cobalt bis(2-ethylhexanoate)	STP	0,37 mg/L	Fresh water	0,00051 mg/L
CAS: 136-52-7	Soil	7,9 mg/kg	Marine water	0,00236 mg/L
EC: 205-250-6	Intermittent	Non-applicable	Sediment (Fresh water)	9,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	9,5 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 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.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory trac protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
C Specific prote	ction for the hands			
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory han protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection



### Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

# BESA-VAL Solvent based Mixing System Products

TION	8: EXPOSURE	CONTROLS	6/PERSONA	L PROTECTI	ON (continue	d)			
	Pictogram	PP	E	Labelling	CEN Standa	ard	Remarks		
	Mandatory face protection	Face s	shield		EN 166:20 EN 167:20 EN 168:20 EN ISO 4007:	01 Cl 01 th	lean daily and disinfect periodically according to ne manufacturer 's instructions. Use if there is a risk of splashing.		
E Body protection									
	Pictogram	PP	Έ	Labelling	CEN Standa	ard	Remarks		
	Mandatory complete body protection	Disposable ( protection aga risks, with ar fireproof p	inst chemical ntistatic and		EN 1149-1, EN 13034:2005+ EN ISO 139 1:2004/A1:2 EN ISO 6529: EN ISO 6530: EN ISO 13688 EN ISO 13688 EN 464:19	A1:2009 82- 010 2013 2005 :2013	For professional use only. Clean periodically according to the manufacturer's instructions.		
	Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties			EN ISO 13287 EN ISO 20345 EN 13832-1::	:2011	Replace boots at any sign of deterioration.		
F	Additional emerge	ency measure	es .						
	Emergency mea	asure	Sta	andards	Emerge	ency measure	Standards		
Emergency shower			ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011			• + T ash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011		

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D **Volatile organic compounds:** 

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	60,47 % weight
V.O.C. density at 20 °C:	586,53 kg/m <sup>3</sup> (586,53 g/L)
Average carbon number:	7,91
Average molecular weight:	107,04 g/mol

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

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Physical state at 20 °C:	Liquid
Appearance:	Viscous
Colour:	Yellowish
Odour:	Solvent
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	139 °C
Vapour pressure at 20 °C:	714 Pa
Vapour pressure at 50 °C:	3948,6 Pa (3,95 kPa)
Evaporation rate at 20 °C:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.



Product description:	
Density at 20 °C:	920 - 1020 kg/m³
Relative density at 20 °C:	0,92 - 1,02
Dynamic viscosity at 20 °C:	373 - 377 сР
Kinematic viscosity at 20 °C:	387 cSt
Kinematic viscosity at 40 °C:	>20,5 cSt
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:	Immiscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	26 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	238 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
Other information:	
Surface tension at 20 °C:	Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

SLCT	ECTION 10: STABILITY AND REACTIVITY						
10.1	Reactivity:						
	No hazardous reactions are	expected because the	product is stable under reco	mmended storage condit	ions. 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 condition	ons, hazardous reactions	s that lead to excessive tem	peratures or pressure are	e not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	storage at room tempe	rature:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable		
10.5	Incompatible materials:						
	Acids	Water	Oxidising materials	Combustible materials	Others		
	Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases		
10.6	Hazardous decomposition	on products:					



# BESA-VAL

# Solvent based Mixing System Products

# SECTION 10: STABILITY AND REACTIVITY (continued)

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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### 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 : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- 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. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
  - IARC: Xylene (3); 4-methylpentan-2-one (2B); 2-butoxyethanol (3)
  - 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: 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.
- 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: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Skin: 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.

H- Aspiration hazard:

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.

# Other information:

\*\* Changes with regards to the previous version



# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

# Non-applicable

# Specific toxicology information on the substances:

Identification	Ac	ute toxicity	Genus
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg (ATEi)	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	LD50 oral	3492 mg/kg	Rat
CAS: 64742-95-6	LD50 dermal	3160 mg/kg	Rabbit
EC: 918-668-5	LC50 inhalation	6193 mg/L (4 h)	Rat
2-butoxyethanol	LD50 oral	1414 mg/kg	Rat
CAS: 111-76-2	LD50 dermal	1060 mg/kg	Rabbit
EC: 203-905-0	LC50 inhalation	11 mg/L (4 h)	Rat
Butanone oxime	LD50 oral	2100 mg/kg	Rat
CAS: 96-29-7	LD50 dermal	1100 mg/kg	Rat
EC: 202-496-6	LC50 inhalation	>20 mg/L	
4-methylpentan-2-one	LD50 oral	2080 mg/kg	
CAS: 108-10-1	LD50 dermal	>2000 mg/kg	
EC: 203-550-1	LC50 inhalation	>20 mg/L	
calcium bis(2-ethylhexanoate)	LD50 oral	2043 mg/kg	Rat
CAS: 136-51-6	LD50 dermal	>2000 mg/kg	
EC: 205-249-0	LC50 inhalation	>5 mg/L	
Dipropylene Glycol Methyl Ether	LD50 oral	>2000 mg/kg	
CAS: 34590-94-8	LD50 dermal	>2000 mg/kg	
EC: 252-104-2	LC50 inhalation	>20 mg/L	
Cobalt bis(2-ethylhexanoate)	LD50 oral	>2000 mg/kg	
CAS: 136-52-7	LD50 dermal	>2000 mg/kg	
EC: 205-250-6	LC50 inhalation	>5 mg/L	

	ATE mix	Ingredient(s) of unknown toxicity
Oral	70700 mg/kg (Calculation method)	0 %
Dermal	1910,2 mg/kg (Calculation method)	0 %
Inhalation	19,13 mg/L (4 h) (Calculation method)	0 %

\*\* Changes with regards to the previous version

# SECTION 12: ECOLOGICAL INFORMATION \*\*

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

### 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	1 - 10 mg/L		Crustacean
EC: 918-668-5	EC50	1 - 10 mg/L		Algae
Butanone oxime	LC50	843 mg/L (96 h)	Pimephales promelas	Fish
CAS: 96-29-7	EC50	750 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-496-6	EC50	83 mg/L (72 h)	Scenedesmus subspicatus	Algae

\*\* Changes with regards to the previous version



# SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

Identification		Acute toxicity	Species	Genus
4-methylpentan-2-one	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
CAS: 108-10-1	EC50	862 mg/L (24 h)	Daphnia magna	Crustacean
EC: 203-550-1	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Algae
calcium bis(2-ethylhexanoate)	LC50	270 mg/L (96 h)	N/A	Fish
CAS: 136-51-6	EC50	Non-applicable		
EC: 205-249-0	EC50	Non-applicable		
Dipropylene Glycol Methyl Ether	LC50	10000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 34590-94-8	EC50	1919 mg/L (48 h)	Daphnia magna	Crustacean
EC: 252-104-2	EC50	Non-applicable		
Cobalt bis(2-ethylhexanoate)	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 136-52-7	EC50	0.1 - 1 mg/L		Crustacean
EC: 205-250-6	EC50	0.1 - 1 mg/L		Algae

# 12.2 Persistence and degradability:

Identification	Deg	radability	Biodegrada	ability
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
2-butoxyethanol	BOD5	0.71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days
EC: 203-905-0	BOD5/COD	0.32	% Biodegradable	96 %
Butanone oxime	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 96-29-7	COD	Non-applicable	Period	28 days
EC: 202-496-6	BOD5/COD	Non-applicable	% Biodegradable	24 %
4-methylpentan-2-one	BOD5	2.06 g O2/g	Concentration	100 mg/L
CAS: 108-10-1	COD	2.16 g O2/g	Period	14 days
EC: 203-550-1	BOD5/COD	0.95	% Biodegradable	84 %
calcium bis(2-ethylhexanoate)	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 136-51-6	COD	Non-applicable	Period	28 days
EC: 205-249-0	BOD5/COD	Non-applicable	% Biodegradable	99 %
Dipropylene Glycol Methyl Ether	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 34590-94-8	COD	0.00202 g O2/g	Period	28 days
EC: 252-104-2	BOD5/COD	Non-applicable	% Biodegradable	73 %

### 12.3 Bioaccumulative potential:

Identification	Bioaccu	Bioaccumulation potential	
Xylene	BCF	9	
CAS: 1330-20-7	Pow Log	2.77	
EC: 215-535-7	Potential	Low	
2-butoxyethanol	BCF	3	
CAS: 111-76-2	Pow Log	0.83	
EC: 203-905-0	Potential	Low	
Butanone oxime	BCF	5	
CAS: 96-29-7	Pow Log	0.59	
EC: 202-496-6	Potential	Low	
4-methylpentan-2-one	BCF	2	
CAS: 108-10-1	Pow Log	1.31	
EC: 203-550-1	Potential	Low	
calcium bis(2-ethylhexanoate)	BCF		
CAS: 136-51-6	Pow Log	2.96	
EC: 205-249-0	Potential		
Dipropylene Glycol Methyl Ether	BCF	1	
CAS: 34590-94-8	Pow Log	-0.06	
EC: 252-104-2	Potential	Low	

\*\* Changes with regards to the previous version



# SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

### 12.4 Mobility in soil:

Identification	Absorp	tion/desorption	Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m <sup>3</sup> /mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
2-butoxyethanol	Кос	8	Henry	1,621E-1 Pa·m³/mol
CAS: 111-76-2	Conclusion	Very High	Dry soil	No
EC: 203-905-0	Surface tension	2,729E-2 N/m (25 °C)	Moist soil	Yes
Butanone oxime	Кос	3	Henry	Non-applicable
CAS: 96-29-7	Conclusion	Very High	Dry soil	Non-applicable
EC: 202-496-6	Surface tension	2,57E-2 N/m (25 °C)	Moist soil	Non-applicable
4-methylpentan-2-one	Кос	Non-applicable	Henry	Non-applicable
CAS: 108-10-1	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-550-1	Surface tension	2,35E-2 N/m (25 °C)	Moist soil	Non-applicable
calcium bis(2-ethylhexanoate)	Кос	Non-applicable	Henry	2,94E-1 Pa·m <sup>3</sup> /mol
CAS: 136-51-6	Conclusion	Non-applicable	Dry soil	Yes
EC: 205-249-0	Surface tension	Non-applicable	Moist soil	Yes

# 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

\*\* Changes with regards to the previous version

### SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1** Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous	

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

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

#### 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:



SECTION 14: TRANSPC	DRT I	INFORMATION (continued)	
			194222
		UN number:	UN1263
		UN proper shipping name: Transport hazard class(es):	PAINT
	14.5	Labels:	3 3
	1 / /	Packing group:	III
		Environmental hazards:	No
		Special precautions for user	
-	1 110	Special regulations:	163, 367, 650
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
1	14.7	Transport in bulk according	Non-applicable
		to Annex II of Marpol and	
		the IBC Code:	
Transport of dan	gero	us goods by sea:	
With regard to IMD	DG 39	-18:	
1	14.1	UN number:	UN1263
		UN proper shipping name:	PAINT
1	14.3	Transport hazard class(es):	3
		Labels:	3
		Packing group:	III
3/	-	Environmental hazards:	No
<b>V</b> 1	14.6	Special precautions for user	
		Special regulations:	223, 955, 163, 367
		EmS Codes:	F-E, S-E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L Non emplicable
-	4 4 7	Segregation group:	Non-applicable
-	14./	Transport in bulk according to Annex II of Marpol and	Non-applicable
		the IBC Code:	
Transport of dan	gero	us goods by air:	
With regard to IAT	A/ICA	O 2020:	
<u> </u>	14.1	UN number:	UN1263
1	14.2	UN proper shipping name:	PAINT
		Transport hazard class(es):	3
		Labels:	3
3/ 1	14.4	Packing group:	III
<b>*</b> 1	14.5	Environmental hazards:	No
1	14.6	Special precautions for user	
		Physico-Chemical properties:	see section 9
1	14.7	Transport in bulk according	Non-applicable
		to Annex II of Marpol and the IBC Code:	
		the IDC Coue.	

# SECTION 15: REGULATORY INFORMATION

	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:					
	- CONTINUED ON NEXT PAGE -				



SECT	ION 15: REGULATORY I	NFORMATION (cor	ntinued)			
	<b>a</b> #		<b>S</b>	Lower-tie	r Upper-tier	
	Section		Description	requireme	nts requirements	
	P5c	alisation and the w	o of cortain dangaraw	5000 s substances and mixtures (An		
	etc):	ansation and the us	se of certain utiligerous	ה שמששנמוונים מונג וווגנעויפל (An	IICA AVII KEAUN,	
	etc): Shall not be used, as substatthe general public for enter — metallic glitter intended of — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foa — artificial cobwebs, — stink bombs. Without prejudice to the ap suppliers shall ensure beforvisibly, legibly and indelibly 'For professional users only Shall not be used in: —ornamental articles intended and ashtrays, —tricks and jokes, —games for one or more particles <b>Specific provisions in ter</b> It is recommended to use to assessments in order to est product. <b>Other legislation:</b>	ance or as mixtures in tainment and decorati mainly for decoration, ams, plication of other Com re the placing on the n with: '. ded to produce light or articipants, or any arti- r <b>ms of protecting pe</b> he information include rablish the necessary r	aerosol dispensers where ve purposes such as the f munity provisions on the narket that the packaging r colour effects by means cle intended to be used as <b>cople or the environme</b> d in this safety data shee isk prevention measures f	these aerosol dispensers are inter following: classification, packaging and labell of aerosol dispensers referred to a of different phases, for example in s such, even with ornamental aspe	ing of substances, bove is marked ornamental lamps cts.	
15.2	The product could be affected by sectorial legislation					
15.2	2 Chemical safety assessment: The supplier has not carried out evaluation of chemical safety.					
	i ne supplier nas not carried	out evaluation of che	emical safety.			
SECT	ION 16: OTHER INFORM	1ATION				
	Regulation (EC) No 1907/20 Modifications related to COMPOSITION/INFORMATI · New declared substances calcium bis(2-ethylhe · Removed substances 2-ethylhexanoic acid, CLP Regulation (EC) No 127 · Supplementary informati Texts of the legislative p H317: May cause an allergin H315: Causes skin irritation H335: May cause respirator H373: May cause damage t H312+H332: Harmful in con H226: Flammable liquid and H319: Causes serious eye in Texts of the legislative p	been designed in acco 206 (Regulation (EC) N the previous Safety ION ON INGREDIENTS exanoate) (136-51-6) zirconium salt (22464 72/2008 (SECTION 2, 2) tion bhrases mentioned in c skin reaction y irritation o organs through prolent intact with skin or if inf d vapour rritation bhrases mentioned in ot refer to the product th appear in section 3	No 2015/830) <b>7 Data Sheet which con</b> 5 (SECTION 3, SECTION 1 4-99-9) SECTION 16): in section 2: onged or repeated exposed naled		sks.:	
		- CC	ONTINUED ON NEXT PAG	Ε-		



# SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled Acute Tox. 4: H312 - Harmful in contact with skin Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Carc. 2: H351 - Suspected of causing cancer Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Flam. Liq. 3: H226 - Flammable liquid and vapour Repr. 1B: H360 - May damage fertility or the unborn child Repr. 2: H361d - Suspected of damaging the unborn child. Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction Skin Sens. 1A: H317 - May cause an allergic skin reaction STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral) STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness **Classification procedure:** Skin Sens. 1A: Calculation method

Skin Sens. 1A. Calculation method Skin Irrit. 2: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3) Eye Irrit. 2: Calculation method

### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

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.