Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code:	**0036130**
Product name	**POLIFIN**
Chemical name and synonyme	**POLIFIN**

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

Sector of use	**SU22 - Professional uses - SU21- Consumer uses**
Product category	**PC31 - Polishes and wax mixtures**
Description/ use	**Resin-waxy emulsion for floors**

1.3. Details of the supplier of the safety data sheet

Name	**MARBEC S.R.L.**
Full address	**VIA CROCE ROSSA 5/i**
District and Country	**51037 MONTALE (PISTOIA)** **ITALIA**
	Tel. +039 0573/959848
e-mail address of the competent person responsible for the Safety Data Sheet	
Product distribution by:	**info@marbec.it**

1.4. Emergency telephone number

For urgent inquiries refer to	**MARBEC srl** **+390573959848 h8.30-13 h14-18 o +393348578502** **Telephone number of Poison Centers active 24/24 hours** **CAV Ospedale Niguarda Ca` Granda –** **Milano 003902 66101029** **CAV Ospedale Careggi- Firenze 0039-055 7947819** **CAV Policlinico Gemelli –** **Roma 0039- 2206-3054343**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1	H318	Causes serious eye damage.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Danger

Hazard statements:

H318	Causes serious eye damage.
EUH208	Contains: Rosin acids, fumarates, esters with pentaerythritol and mixture of 5-chloro-2methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one May produce an allergic reaction.

Precautionary statements:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
Contains:	Alcohols, branched and linear C12-15, ethoxylated (> = 7 - <15 EO)

VOC (Directive 2004/42 / EC):

High performance one-component paints.

VOC expressed in g / liter of ready-to-use product:	40,00
Maximum limit:	140,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in 0.1% concentration.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**

DIPROPYLENE GLYCOL MONOMETHYL ETHER
CAS 34590-94-8 — 3 ≤ x < 9 — Substance with a community workplace exposure limit.
EC 252-104-2
INDEX -
Reg. no. 01-2119450011-60-xxxx

Alcohols, branched and linear C12-15, ethoxylated (> = 7 - <15 EO)
CAS 106232-83-1 — 3 ≤ x < 9 — Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412
LD50 Oral: >300 mg/kg
EC
INDEX -
Reg. No. Exempt from obligation
Exempt from the REACH registration obligation as a polymer Art.1 (9)

TRIBUTOXYETHYL PHOSPHATE
CAS 78-51-3 — 1 ≤ x < 3
EC 201-122-9
INDEX -
Reg. no. 01-2119485835-23-xxxx

DIETHYLENE GLYCOL MONOETHYL ETHER
CAS 111-90-0 — 1 ≤ x < 3
EC 203-919-7
INDEX -
Reg. no. 01-2119475105-42

Rosin acids, fumarates, esters with pentaerythritol
CAS 94581-15-4 — 0,5 ≤ x < 1 — Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 4 H413
EC 305-514-1
INDEX -
Reg. no. 01-2119485895-17

2-Dietilaminoetanolo
CAS 100-37-8 — 0 ≤ x < 0,5 — Flam. Liq. 3 H226, Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
STOT SE 3 H335: ≥ 5%
LD50 Oral: 1320 mg/kg, LD50 Dermal: 885 mg/kg, LC50 Vapour inhalation: 4,6 mg/l
EC 202-845-2
INDEX 603-048-00-6
Nr. Reg. 01-2119488937-14

2-BUTOXYETHANOL
CAS 111-76-2 — 0 ≤ x < 0,5 — Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
LD50 Oral: 1200 mg/kg, STA Vapour inhalation: 11 mg/l
EC 203-905-0
INDEX 603-014-00-0
Reg. no. 01-2119475108-36-0005

AMMONIA

CAS 1336-21-6	0 ≤ x < 0,5	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note/notes according to Annex VI to the CLP Regulation: B STOT SE 3 H335: ≥ 5%

EC 215-647-6

INDEX 007-001-01-2

Reg. no. 01-2119488876-14-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
The product is neither flammable nor combustible.

5.3. Advice for firefighters

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):
12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	50	310	50	
MAK	DEU	310	50	310	50	
VLA	ESP	308	50			SKIN
VLEP	FRA	308	50			SKIN
VLEP	ITA	308	50			SKIN
VLE	PRT	308	50			SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN
TLV-ACGIH		606	100	909	150	SKIN

DIETHYLENE GLYCOL MONOETHYL ETHER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	35	6	70	12	11

Predicted no-effect concentration - PNEC		
Normal value in fresh water	1,98	mg/l
Normal value in marine water	0,198	mg/l
Normal value for fresh water sediment	7,32	mg/kg/d
Normal value for marine water sediment	0,732	mg/kg/d
Normal value of STP microorganisms	500	mg/l
Normal value for the terrestrial compartment	0,34	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				50 mg/kg bw/d				
Inhalation			18 mg/m3	37 mg/m3			30 mg/m3	61 mg/m3
Skin				25 mg/kg bw/d				83 mg/kg bw/d

Rosin acids, fumarates, esters with pentaerythritol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	1,55	mg/kg
Normal value for marine water sediment	0,155	mg/kg
Normal value of STP microorganisms	1,26	mg/l

Normal value for the terrestrial compartment	0,249	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3 mg/kg/d				
Inhalation							VND	10,5 mg/m3

2-DIETHYLAMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	24	5	24	5	SKIN
MAK	DEU	24	5	24	5	SKIN
VLA	ESP	9,7	2			SKIN
VLEP	FRA	50	10			SKIN
TLV-ACGIH		9,6	2			SKIN

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,044	mg/l
Normal value in marine water	0,0044	mg/l
Normal value for fresh water sediment	0,475	mg/kg
Normal value for marine water sediment	0,0475	mg/kg
Normal value for water, intermittent release	4,4	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,069	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							1,07 mg/m3	7,34 mg/m3
Skin						1 mg/kg/d		

AMMONIA

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20	36	50	
TLV-ACGIH		17	25	24	35	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0011	mg/l
Normal value in marine water	0,011	mg/l

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						36 mg/m3		14 mg/m3
Skin						6,8 mg/kg/d		

2-BUTOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN Hinweis
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
VLE	PRT	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,2 mg/kg bw/d				
Inhalation	123 mg/m3			49 mg/m3				20 mg/kg
Skin				38 mg/kg bw/d				

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	white
Odour	characteristic
Melting point / freezing point	Not applicable
Initial boiling point	Not available
Flammability	incombustible
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Flash point	> 90 °C
Auto-ignition temperature	Not available
pH	8,5
Kinematic viscosity	Not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	1,01 kg/l
Relative vapour density	Not available
Particle characteristics	Not applicable
Appearance	liquid
Colour	white
Odour	characteristic
Melting point / freezing point	Not applicable
Initial boiling point	Not available
Flammability	incombustible
Lower explosive limit	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	3,96 % - 40,00 g/litre
Explosive properties	non-explosive
Oxidising properties	non-oxidizing

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

AMMONIA

Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

10.6. Hazardous decomposition products

TRIBUTOXYETHYL PHOSPHATE

May develop: phosphoryl oxides.

AMMONIA

May develop: nitric oxide.

2-BUTOXYETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

LD50 (Oral):	> 300 mg/kg rat

DIETHYLENE GLYCOL MONOETHYL ETHER

LD50 (Dermal):	9143 mg/kg rabbit
LD50 (Oral):	6031 mg/kg mouse (male)
LC50 (Inhalation vapours):	0,02 mg/l/8h rat

TRIBUTOXYETHYL PHOSPHATE

LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	> 2000 mg/kg

2-DIETHYLAMINOETHANOL

LD50 (Dermal):	885 mg/kg rabbit
LD50 (Oral):	1320 mg/kg rat
LC50 (Inhalation vapours):	4,6 mg/l rat

AMMONIA

LD50 (Oral):	350 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Oral):	1200 mg/kg Guinea pig
LC50 (Inhalation vapours):	2,2 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.
Contains:

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, if the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2-BUTOXYETHANOL
Aquatic toxicity assessment (supplier): the product is most likely not harmful to aquatic organisms. There is a high probability that the product is not chronically harmful to aquatic organisms. The correct introduction of low concentrations into the biological purification plant should not compromise the degradation activity of the activated sludge. Terrestrial toxicity assessment (supplier): scientifically not justified study.

AMMONIA	
LC50 - for Fish	47 mg/l/96h Channa punctata
EC50 - for Crustacea	20 mg/l/48h Daphnia magna

DIETHYLENE GLYCOL MONOETHYL ETHER	
LC50 - for Fish	6010 mg/l/96h fish
EC50 - for Crustacea	1982 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/96h scenedesmus subspicatus

TRIBUTOXYETHYL PHOSPHATE	
LC50 - for Fish	24 mg/l/96h Onchorynchus mykiss
EC50 - for Crustacea	75 mg/l/48h daphnia magna

2-BUTOXYETHANOL	
LC50 - for Fish	1474 mg/l/96h oncorhynchus mykiss
EC50 - for Crustacea	1550 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	1840 mg/l/72h pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 100 mg/l brachydanio rerio
Chronic NOEC for Crustacea	100 mg/l daphnia magna

Alcohols, branched and linear C12-15, ethoxylated (> = 7 - <15 EO)	
LC50 - for Fish	< 10 mg/l/96h Sscie: carassius auratus

EC50 - for Crustacea	< 10 mg/l/48h Specie: dapnia magna

12.2. Persistence and degradability

AMMONIA

Degradability: information not available

DIETHYLENE GLYCOL MONOETHYL ETHER

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

TRIBUTOXYETHYL PHOSPHATE

Solubility in water	100 - 1000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

2-DIETHYLAMINOETHANOL

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

Alcohols, branched and linear C12-15, ethoxylated (> = 7 - <15 EO)

Rapidly degradable
Durata:28 gg >70% - etodo =ECD301

12.3. Bioaccumulative potential

DIETHYLENE GLYCOL MONOETHYL ETHER

Partition coefficient: n-octanol/water	-0,54
BCF	< 100 little bioaccumulative

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient: n-octanol/water	0,0043

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water	0,81
BCF	3.16 (calculated QSAR value). This substance is not supposed to bioaccumulate

2-DIETHYLAMINOETHANOL	
Partition coefficient: n-octanol/water	0,21
BCF	< 6,1

12.4. Mobility in soil

2-BUTOXYETHANOL
Transport assessment between environmental departments (supplier): the substance does not evaporate into the atmosphere from the water surface. Absorption to the solid phase of the soil is not predictable. Scientifically not justified study. Stability in water: immediate hydrolysis is not expected; it does not contain functional groups for which it is believed that they can be hydrolyzed in water. Stability in soil: expected low absorption in soil particles.

2-DIETHYLAMINOETHANOL	
Partition coefficient: soil/water	0,777

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

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

Product

Point	3 - 40

Contained substance

Point	75

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following substances:
Resin and rosin acids, smoked, esters with pentaerythritol, 2-Diethylaminoethanol, ammonia, 2-Butoxyethanol

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4

H226	Flammable liquid and vapour.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
02 / 03 / 07 / 08 / 10 / 11 / 12 / 15.