

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 1 of 17

Print date: 30/10/2020

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

1.1 Product identifier.

Product Name: 80.-2 - BARNIZ ALTA PROTECCIÓN SATINADO
Product Code: BARNIZAPROTSAT

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

Not available.

1.3 Details of the supplier of the safety data sheet.

Company: **PINTURAS AYELENSES, S.L.**
Address: POLÍGONO SAN JOSÉ, S/N
City: AIELO DE MALFERIT
Province: VALENCIA
Telephone: 962360292
Fax: 962360601
E-mail: info@pinturaspinay.com
Web: www.pinturaspinay.com

1.4 Emergency telephone number: 962360292 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 3 : Harmful to aquatic life with long lasting effects.

Asp. Tox. 1 : May be fatal if swallowed and enters airways.

Flam. Liq. 3 : Flammable liquid and vapour.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Danger

H statements:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

P statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to ...

EUH statements:

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 2 of 17

Print date: 30/10/2020

EUH208	Contains 2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime. May produce an allergic reaction.
EUH208	Contains A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.
EUH208	Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
EUH208	Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

Contains:

naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65o C to 230o C (149oF to 446oF).]

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
: 649-327-00-6 : 64742-48-9 : 265-150-3 : 01-2119486659-16-XXXX	naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65o C to 230o C (149oF to 446oF).] (contains less than 0,1 % w/w benzene)	10 - 25 %	Asp. Tox. 1, H304	-
: 64742-48-9 : 01-2119463258-33-XXXX	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - 10 %	Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - STOT SE 3, H336	-
: 603-064-00-3 : 107-98-2 : 203-539-1 : 01-2119457435-35-XXXX	[1] 1-methoxy-2-propanol, monopropylene glycol methyl ether	1 - 20 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-
: 616-014-00-0 : 96-29-7 : 202-496-6 : 01-2119539477-28-XXXX	[1] 2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime	0.1 - 1 %	Acute Tox. 4 *, H312 - Carc. 2, H351 - Eye Dam. 1, H318 - Skin Sens. 1, H317	-

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 3 of 17

Print date: 30/10/2020

: 104810-47-1 : 400-830-7 : 01-0000015075-76-XXXX	A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene), α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	0.1 - 1 %	Aquatic Chronic 2, H411 - Skin Sens. 1, H317	-
: 603-004-00-6 : 71-36-3 : 200-751-6 : 01-2119484630-38-XXXX	[1] butan-1-ol	0 - 1 %	Acute Tox. 4 *, H302 - Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-
: 41556-26-7 : 255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.25 - 1 %	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Skin Sens. 1, H317	-
: 606-005-00-X : 108-83-8 : 203-620-1 : 01-2119474441-41-XXXX	[1] 2,6-dimethylheptan-4-one, di-isobutyl ketone	0 - 10 %	Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C \geq 10 %
: 22464-99-9 : 245-018-1	[1] 2-ethylhexanoic acid, zirconium salt	0.1 - 3 %	Repr. 2, H361	-
: 136-52-7 : 205-250-6 : 01-2119524678-29-XXXX	cobalt bis(2-ethylhexanoate)	0.1 - 1 %	Aquatic Acute 1, H400 - Aquatic Chronic 3, H412 - Repr. 2, H361 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
: 111-84-2 : 203-913-4 : 01-2119463259-31-XXXX	[1] Nonane	0 - 0.25 %	Aquatic Chronic 1, H410 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H336	-
: 607-089-00-0 : 79-09-4 : 201-176-3 : 01-2119486971-24-XXXX	[1] propionic acid	0 - 10 %	Skin Corr. 1B, H314	Skin Corr. 1B, H314: C \geq 25 % Skin Irrit. 2, H315: 10 % \leq C < 25 % Eye Irrit. 2, H319: 10 % \leq C < 25 % STOT SE 3, H335: C \geq 10 %

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 4 of 17

Print date: 30/10/2020

: 601-023-00-4 : 100-41-4 : 202-849-4 : 01-2119489370-35-XXXX	[1] ethylbenzene	0 - 10 %	Acute Tox. 4 *, H332 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - STOT RE 2, H373(órganos de audición)	-
: 607-195-00-7 : 108-65-6 : 203-603-9 : 01-2119475791-29-XXXX	[1] 2-methoxy-1-methylethyl acetate	0 - 2.5 %	Flam. Liq. 3, H226	-
: 607-230-00-6 : 149-57-5 : 205-743-6 : 01-2119488942-23-XXXX	[1] 2-ethylhexanoic acid	0 - 3 %	Repr. 2, H361d ***	-
: 601-022-00-9 : 1330-20-7 : 215-535-7 : 01-2119488216-32-XXXX	[1] xylene	0 - 10 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* *** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

SECTION 5: FIREFIGHTING MEASURES.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 5 of 17

Print date: 30/10/2020

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 6 of 17

Print date: 30/10/2020

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills. The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
1-methoxy-2-propanol, monopropylene glycol methyl ether	107-98-2	European Union [1]	Eight hours	100 (skin)	375 (skin)
			Short term	150 (skin)	568 (skin)
		United Kingdom [2]	Eight hours	100	375
			Short term	150	560
		Éire [3]	Eight hours	100	375
			Short term	150	568
2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime	96-29-7	Éire [3]	Eight hours	3	10
			Short term	10	33
butan-1-ol	71-36-3	United Kingdom [2]	Eight hours		
			Short term	50	154
		Éire [3]	Eight hours	20	
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	(Ceiling) 50	
			Short term		
		United States [5] (NIOSH)	Eight hours	(Ceiling) 50	
			Short term		
United States [6] (OSHA)	Eight hours	100	300		
	Short term				
2,6-dimethylheptan-4-one, di-isobutyl ketone	108-83-8	United Kingdom [2]	Eight hours	25	148
			Short term		
		Éire [3]	Eight hours	25	150
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	25	
			Short term		
		United States [5] (NIOSH)	Eight hours	25	
			Short term		
United States [6] (OSHA)	Eight hours	50	290		
	Short term				
2-ethylhexanoic acid, zirconium salt	22464-99-9	United States [4] (Cal/OSHA)	Eight hours		5 (as Zr)
			Short term		10 (as Zr)
		United States [5] (NIOSH)	Eight hours		5 (as Zr)
			Short term		10 (as Zr)
United States [6] (OSHA)	Eight hours		5 (as Zr)		
	Short term				
Nonane	111-84-2	Éire [3]	Eight hours	200	1050
propionic acid	79-09-4	European Union [1]	Eight hours	10	31
			Short term	20	62

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 7 of 17

Print date: 30/10/2020

		United Kingdom [2]	Eight hours	10	31
			Short term	15	46
		Éire [3]	Eight hours	10	31
			Short term	20	62
ethylbenzene	100-41-4	European Union [1]	Eight hours	100 (skin)	442 (skin)
			Short term	200 (skin)	884 (skin)
		United Kingdom [2]	Eight hours	100	441
			Short term	125	552
		Éire [3]	Eight hours	100	442
			Short term	200	884
		United States [4] (Cal/OSHA)	Eight hours	5	
			Short term	30	
United States [5] (NIOSH)	Eight hours	100			
	Short term	125			
United States [6] (OSHA)	Eight hours	100	435		
	Short term				
2-methoxy-1-methylethyl acetate	108-65-6	European Union [1]	Eight hours	50 (skin)	275 (skin)
			Short term	100 (skin)	550 (skin)
		United Kingdom [2]	Eight hours	50	274
			Short term	100	548
Éire [3]	Eight hours	50	275		
	Short term	100	550		
2-ethylhexanoic acid	149-57-5	Éire [3]	Eight hours		5
			Short term		
xylene	1330-20-7	European Union [1]	Eight hours	50 (skin)	221 (skin)
			Short term	100 (skin)	442 (skin)
		United Kingdom [2]	Eight hours	50	220
			Short term	100	441
		Éire [3]	Eight hours	50	221
			Short term	100	442
		United States [4] (Cal/OSHA)	Eight hours	100	
			Short term	150 (Ceiling) 300	
United States [5] (NIOSH)	Eight hours	100			
	Short term	150			
United States [6] (OSHA)	Eight hours	100	435		
	Short term				

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[3] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[5] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

[6] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
1-methoxy-2-propanol, monopropylene glycol methyl ether CAS No: 107-98-2 EC No: 203-539-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	369 (mg/m ³)
2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime CAS No: 96-29-7 EC No: 202-496-6	DNEL (Workers)	Inhalation, Long-term, Local effects	3,33 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	9 (mg/m ³)
butan-1-ol CAS No: 71-36-3	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m ³)

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 8 of 17

Print date: 30/10/2020

EC No: 200-751-6	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m ³)
	DNEL (General population)	Oral, Long-term, Systemic effects	3,125 (mg/kg bw/day)
2,6-dimethylheptan-4-one, di-isobutyl ketone CAS No: 108-83-8 EC No: 203-620-1	DNEL (Workers)	Inhalation, Long-term, Local effects	290 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	479 (mg/m ³)
cobalt bis(2-ethylhexanoate) CAS No: 136-52-7 EC No: 205-250-6	DNEL (Workers)	Inhalation, Long-term, Local effects	0,2351 (mg/m ³)
Nonane CAS No: 111-84-2 EC No: 203-913-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	2035 (mg/m ³)
propionic acid CAS No: 79-09-4 EC No: 201-176-3	DNEL (Workers)	Inhalation, Long-term, Local effects	31 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	31 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Systemic effects	62 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	62 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	132 (mg/kg bw/day)
	DNEL (Workers)	Dermal, Long-term, Local effects	260 (µg/cm ²)
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)
2-methoxy-1-methylethyl acetate CAS No: 108-65-6 EC No: 203-603-9	DNEL (Workers)	Inhalation, Long-term, Systemic effects	275 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	33 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	153,5 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	54,8 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	1,67 (mg/kg bw/day)
2-ethylhexanoic acid CAS No: 149-57-5 EC No: 205-743-6	DNEL (Workers)	Inhalation, Long-term, Systemic effects	32 (mg/m ³)
xylene CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	aqua (freshwater)	0,082 (mg/L)
	aqua (marine water)	0,0082 (mg/L)
	aqua (intermittent releases)	2,25 (mg/L)
	STP	2476 (mg/L)
	sediment (freshwater)	0,178 (mg/kg sediment dw)

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 9 of 17

Print date: 30/10/2020



	sediment (marine water)	0,0178 (mg/kg sediment dw)
	soil	0,015 (mg/kg soil dw)
propionic acid CAS No: 79-09-4 EC No: 201-176-3	aqua (freshwater)	0,5 (mg/L)
	aqua (marine water)	0,05 (mg/L)
	aqua (intermittent releases)	5 (mg/L)
	STP	5 (mg/L)
	sediment (freshwater)	1,86 (mg/kg sediment dw)
	sediment (marine water)	0,186 (mg/kg sediment dw)
	soil	0,1258 (mg/kg soil dw)
2-methoxy-1-methylethyl acetate CAS No: 108-65-6 EC No: 203-603-9	aqua (freshwater)	0,635 (mg/L)
	aqua (marine water)	0,0635 (mg/L)
	aqua (intermittent releases)	6,35 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	3,29 (mg/kg sediment dw)
	sediment (marine water)	0,329 (mg/kg sediment dw)
	soil	0,29 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %		
Uses:			
Breathing protection:			
PPE:	Filter mask for protection against gases and particles.		
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.		
CEN standards:	EN 136, EN 140, EN 405		
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.		
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.		
Filter Type needed:	A2		
Hand protection:			
PPE:	Protective gloves against chemicals.		
Characteristics:	«CE» marking, category III.		
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480
		Material thickness (mm):	0,35
Eye protection:			

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH




Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 10 of 17

Print date: 30/10/2020

PPE:	Protective goggles with built-in frame.	
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.	
CEN standards:	EN 165, EN 166, EN 167, EN 168	
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.	
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.	
Skin protection:		
PPE:	Anti-static protective clothing.	
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.	
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5	
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.	
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	
PPE:	Anti-static safety footwear.	
Characteristics:	«CE» marking, category II.	
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346	
Maintenance:	The footwear should be checked regularly	
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour

Colour: N.A./N.A.

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

Flash point: 41 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A.

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A.

Relative density: 0,92-0,98

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A.

Oxidizing properties: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Dropping point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 11 of 17

Print date: 30/10/2020

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	Oral	LD50	Rat	4360 mg/kg bw [1]
		[1] Union Carbide Corp. Bushy Run Research Center, Project Report No.14-73. Export, PA. 1951.		
	Dermal	LD50	Rabbit	3402 mg/kg bw [1]
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	Oral	LD50	Rat	3500 mg/kg bw [1]
		[1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956		
	Dermal	LD50	Rabbit	15400 mg/kg bw [1]
2-methoxy-1-methylethyl acetate	Oral	LC50	Rat	7500 ppm (8 h) [1]
		[1] Union Carbide Corp. Bushy Run Research Center, Project Report No.14-73. Export, PA. 1951.		
	Inhalation			
	Oral	LD50	Rat	6190 mg/kg bw [1]
		[1] Study report, 1985. OECD Guideline 401 (Acute Oral Toxicity).		

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 12 of 17

Print date: 30/10/2020

CAS No: 108-65-6 EC No: 203-603-9	Dermal	LD50 Rabbit >5000 mg/kg bw [1] [1] Dow Chemical Company Reports. Vol. MSD-1582
	Inhalation	LC0 Rat >4345 ppm (6 h) [1] [1] Study report, 1980. OECD Guideline 403 (Acute Inhalation Toxicity).
xylene	Oral	LD50 Rat 4300 mg/kg bw [1] [1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956
	Dermal	LD50 Rabbit > 1700 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
	Inhalation	LC50 Rat 21,7 mg/l/4 h [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
CAS No: 1330-20-7 EC No: 215-535-7		

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation;

Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Based on available data, the classification criteria are not met.

g) reproductive toxicity;

Based on available data, the classification criteria are not met.

h) STOT-single exposure;

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;

Based on available data, the classification criteria are not met.

j) aspiration hazard;

Product classified:

Aspiration toxicity, Category 1: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
butan-1-ol	Fish	LC50	Pimephales promelas	1376 mg/L (96 h) [1]

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 13 of 17

Print date: 30/10/2020

CAS No: 71-36-3 EC No: 200-751-6		[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
	Aquatic invertebrates	EC50 Daphnia magna 1328 mg/L (48 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
	Aquatic plants	EC90 Selenastrum capricornutum (Pseudokirchnerella subcapitata) 717 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
ethylbenzene	Fish	LC50 Fish 80 mg/l (96 h) [1] [1] Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)
	Aquatic invertebrates	LC50 Crustacean 16,2 mg/l (48 h) [1] [1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p
	Aquatic plants	EC50 Algae 5 mg/l (72 h) [1] [1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L. Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. Ecotoxicol.Environ.Saf. 16(2):158-169. Masten, L.W., R.L. Boeri, and J.D. Walker 1994. Strategies Employed to Determine the Acute Aquatic Toxicity of Ethyl Benzene, a Highly Volatile, Poorly Water-Soluble Chemical. Ecotoxicol.Environ.Saf. 27(3):335-348
2-methoxy-1-methylethyl acetate	Fish	LC50 Oryzias latipes 100 mg/L (96 h) [1] [1] Environment Agency of Japan (1998)
	Aquatic invertebrates	EC50 Daphnia magna 407 mg/L (48 h) [1] [1] Environment Agency of Japan (1998)
	Aquatic plants	EC50 Selenastrum capricornutum (Pseudokirchnerella subcapitata) >1000 mg/L (72 h) [1] [1] Environment Agency of Japan (1998)
CAS No: 108-65-6 EC No: 203-603-9		LC50 Fish 15,7 mg/l (96 h) [1] [1] Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212
		LC50 Crustacean 8,5 mg/l (48 h) [1]

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 14 of 17

Print date: 30/10/2020

CAS No: 1330-20-7 EC No: 215-535-7	Aquatic invertebrates	[1] Tatem, H.E., B.A. Cox, and J.W. Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar.Coast.Mar.Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D.Thesis, Texas A&M University, College Station, TX :133 p
	Aquatic plants	

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
1-methoxy-2-propanol, monopropylene glycol methyl ether CAS No: 107-98-2 EC No: 203-539-1	-0,44	-	-	Very low
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	0,84	-	-	Very low
2,6-dimethylheptan-4-one, di-isobutyl ketone CAS No: 108-83-8 EC No: 203-620-1	2,56	-	-	Low
Nonane CAS No: 111-84-2 EC No: 203-913-4	4,76	-	-	High
propionic acid CAS No: 79-09-4 EC No: 201-176-3	0,33	-	-	Very low
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	3,15	-	-	Moderate

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 15 of 17

Print date: 30/10/2020

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT RELATED MATERIAL, 3, PG III, (D/E)

IMDG: UN 1263, PAINT RELATED MATERIAL, 3, PG III

ICAO/IATA: UN 1263, PAINT RELATED MATERIAL, 3, PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3



Hazard number: 30

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

Proceed in accordance with point 6.

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

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 16 of 17

Print date: 30/10/2020

Volatile organic compound (VOC)

Product Subcategory (Directive 2004/42/EC): e - Interior/exterior trim varnishes and woodstains, including opaque woodstains, solvent-borne

Phase I* (from 01/01/2007): 500 g/l

Phase II* (from 01/01/2010): 400 g/l

(*) g/l ready to use

VOC content (p/p): 31,943 %

VOC content: 293,872 g/l

The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. (órganos de audición)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Dermal), Category 4

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4

Acute Tox. 4 : Acute toxicity (Oral), Category 4

Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1

Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1

Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2

Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3

Asp. Tox. 1 : Aspiration toxicity, Category 1

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

BARNIZAPROTSAT-80.-2 - HIGH PROTECTION SATIN VARNISH

Version 1 Date of compilation: 22/10/2020

Version 2 (replaces version 1)

Revision date: 22/10/2020

Page 17 of 17

Print date: 30/10/2020

Carc. 2 : Carcinogen, Category 2
Eye Dam. 1 : Serious eye damage, Category 1
Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
Repr. 2 : Reproductive toxicant, Category 2
Skin Corr. 1B : Skin Corrosive, Category 1B
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Changes regarding to the previous version:

- Change of the name of the product (SECTION 1.1).
- Change of the uses of the product (SECTION 1.2).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.