18J - SOLID (B)

(TV)

Printed on 04/09/2023 Page n. 1 / 15 Replaced revision:5 (Dated 27/11/2020)

ΕN

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 18J Product name SOLID (B)

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

Anti-damp adhesion primer for laying coatings on surfaces subject to excessive

dampness

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Full address Via Fornace Vecchia, 79 District and Country 31058 Susegana

Italia

Tel. +39 0438-437511 Fax +39 0438-435155

e-mail address of the competent person

annabreda@nordresine.com responsible for the Safety Data Sheet

Supplier: NORD RESINE S.p.A.

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

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 2020/878.

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:

Skin corrosion, category 1C H314 Causes severe skin burns and eye damage. H318 Serious eye damage, category 1 Causes serious eye damage. Skin sensitization, category 1 H317 May cause an allergic skin reaction. Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

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:

H314 Causes severe skin burns and eye damage.



NORD RESINE S.p.A.

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SECTION 2. Hazards identification .../>>

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P501 Dispose of contents / container in accordance with federal, state,

and local requirements.

Keep out of reach of children.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Contains: POLY(PROPYLENE GLYCOL) BIS(2-AMINOPROPYL ETHER)

Phenol, 4,4'-(1-methylethylidene)bis-,polymer with N-(2-aminoethyl)-1,2-ethanediamine,

(chloromethyl)oxirane, alpha-hydro-omega hydroxypoly[oxiranylmethyl ether, and methyloxirane polymer

with oxirane 2-aminopropyl methyl ether

Tetraethylenepentamine

Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,

2'-[1,4-butanediylbis(oxymethyle)]

DIETHYLENETRIAMINE

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition : 31,56
Limit value: 140,00
- Catalysed with : 250,00 % SOLID (A)

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 concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

 $Formaldehyde, polymer\ with\ N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1, 2-ethane diamine,\ 2,$

2'-[1,4-butanediylbis(oxymethyle)]

INDEX $25 \le x < 35$ Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 885-937-0 CAS 180583-06-6

Phenol, 4,4'-(1-methylethylidene)bis-,polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega

hydroxypoly[oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether

INDEX 25 ≤ x < 35 **Eye Dam. 1 H318**

EC

CAS 455946-46-0

POLY(PROPYLENE GLYCOL) BIS(2-AMINOPROPYL ETHER)

INDEX $1 \le x < 3$ Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412

EC 618-561-0 CAS 9046-10-0 REACH Reg. 01-2119557899-12

Tetraethylenepentamine

REACH Reg. 01-2119487290-37

INDEX 1 ≤ x < 2,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1

H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 292-587-7 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg CAS 90640-66-7

©EPY 11.5.2 - SDS 1004.14



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SECTION 3. Composition/information on ingredients

1-METHOXY-2-PROPANOL

INDEX 603-064-00-3 0 ≤ x < 1 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 CAS 107-98-2

REACH Reg. 01-2119457435-35

DIETHYLENETRIAMINE

INDEX 612-058-00-X 0 ≤ x < 1 Acute Tox. 2 H330, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317

LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h

LD50 Oral: 1140 mg/kg, LD50 Dermal: 1045 mg/kg, LC50 Inhalation vapours:

Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

1,8 mg/l/4h

CAS 111-40-0

REACH Reg. 01-2119473793-27

2-BUTOXYETHANOL

INDEX 603-014-00-0 $0 \le x < 1$

203-865-4

EC 203-905-0

CAS 111-76-2

REACH Reg. 01-2119475108-36

QUARTZ

EC

INDEX $0 \le x < 1$ STOT RE 1 H372

EC 238-878-4 CAS 14808-60-7

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

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 Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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).



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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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os



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SECTION 8. Exposure controls/personal protection .../

riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL Polska Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające

rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych

dla zdrowia w środowisku pracy

ROU România Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru

modificarea și completarea hotărârii guvernului nr. 1.093/2006

SVN Slovenija Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

EU OEL EU Directive (EU) 2022/431; 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 2022

			Totraothy	lenepentamine				
Predicted no-effect cor	ncentration	- PNFC	retiaetily	ichicpentannine				
Normal value in fresh		TILLO				0,01	mg/l	
Normal value in marir						0,001	mg/l	
Normal value for fresl				3,198	mg/kg/d			
Normal value for mar	ine water se	diment				0,3198	mg/kg/d	
Normal value of STP	microorgani	sms				4,6	mg/l	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,21				
				mg/kg bw/d				
Inhalation				0,14				0,82
				mg/m3				mg/m3
Skin			0,0208				0,25	
			mg/cm2				mg/cm2	

		POLY(PROP)	YLENE GLYCOI	L) BIS(2-AMINC	PROPYL ET	HER)		
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water	0,015	mg/l					
Normal value in mari	ne water	0,0143	mg/l					
Normal value for fres	h water sedi	ment				0,132	mg/kg	
Normal value for mar	ine water se	0,125	mg/kg					
Normal value for water	er, intermitte	nt release				0,15	mg/l	
Normal value of STP						7,5	mg/l	
Normal value for the	food chain (secondary poisor	ning)			6,93	mg/kg	
Normal value for the	terrestrial co	mpartment				0,0176	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	0,04 mg/kg bw/d				
Skin			0,311 mg/cm2	1,25 mg/kg bw/d			0,623 mg/cm2	2,5 mg/kg
								bw/d



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				1-METHOXY	/-2-PROPANO	L			
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	72,09	550	146,85	SKIN			
AGW	DEU	370	100	740	200				
MAK	DEU	370	100	740	200				
VLA	ESP	375	100	568	150	SKIN			
VLEP	FRA	188	50	375	100	SKIN			
TLV	GRC	360	100	1080	300				
AK	HUN	375		568		SKIN			
GVI/KGVI	HRV	375	100	568	150				
VLEP	ITA	375	100	568	150	SKIN			
TGG	NLD	375		563		SKIN			
VLE	PRT	375	100	568	150				
NDS/NDSCh	POL	180		360		SKIN			
TLV	ROU	375	100	568	150	SKIN			
MV	SVN	375	100	568	150	SKIN			
WEL	GBR	375	100	560	150	SKIN			
OEL	EU	375	100	568	150	SKIN			
TLV-ACGIH		184	50	368	100				
redicted no-effe	ct concentr	ation - PNE	С						
Normal value ir	n fresh water						10	mg/l	
Normal value ir	n marine wat	er					1	mg/l	
Normal value for	or fresh wate	r sediment					52,3	mg/kg	
Normal value for	or marine wa	ter sedimen	t				5,2	mg/kg	
Normal value for	or water, inte	rmittent rele	ase				100	mg/l	
Normal value o							100	mg/l	
Normal value for			ment				4,56	mg/kg	
lealth - Derived i	no-effect lev	el - DNEL /	DMEL					0 0	
	Effe	cts on cons	umers			Effects on wo	orkers		
Route of expos	ure Acu	ite Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
<u>'</u>	loca	al sv	stemic	local	systemic	local	systemic	local	systemic
Oral		Í			3,3 mg/kg bw/d		•		•
Inhalation					43,9 mg/m3				369 mg/m3
Skin					78				183
					mg/kg bw/d				mg/kg
					- -				bw/d



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SECTION 8. Exposure controls/personal protection

				DIETUVI E	NETRIAMINE	_			
Threehold Limit \	/alua			DIETHYLE	NEIRIAMINI				
Threshold Limit Value						Damanda / C	Observations		
Туре	Country		TWA/8h		STEL/15min		Doservations		
TIV	075	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	4	0,932	8	1,864	OLCINI			
VLA	ESP	4,3	1			SKIN			
VLEP	FRA	4	1						
TLV	GRC	4	1			0.41.			
AK	HUN	4		8		SKIN			
GVI/KGVI	HRV	4,3	1						
TGG	NLD	0,5				SKIN			
NDS/NDSCh	POL	4		12		SKIN			
TLV	ROU	2	0,5	4	1	SKIN			
WEL	GBR	4,3	1			SKIN			
TLV-ACGIH		4,2	1			SKIN			
Predicted no-effe		ation - PNE	C						
Normal value in							0,56	mg/l	
Normal value in							0,056	mg/l	
Normal value for							1072	mg/kg	
Normal value for	or marine wa	ter sediment					107,2	mg/kg	
Normal value o							6	mg/l	
Normal value for							214	mg/kg	
Health - Derived I	no-effect lev	el - DNEL /	DMEL						
	Effects on consumers					Effects on wo	rkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Inhalation								0,87 mg/m3	15,4 mg/m3
Skin		4,8						1,1	11,4
		mg	/kg/d					mg/kg/d	mg/kg/d

				2-BUTO	(YETHANOI	L			
Threshold Limit V	'alue								
Type	Country	TWA/8h		STEL/15i	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	100	20,4	200	40,8	SKIN			
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			
TLV	GRC	120	25						
AK	HUN	98		246		SKIN			
GVI/KGVI	HRV	98	20	246	50	SKIN			
VLEP	ITA	98	20	246	50	SKIN			
TGG	NLD	100		246		SKIN			
VLE	PRT	98	20	246	50	SKIN			
NDS/NDSCh	POL	98		200		SKIN			
TLV	ROU	98	20	246	50	SKIN			
MV	SVN	98	20	246	50	SKIN			
WEL	GBR	123	25	246	50	SKIN			
OEL	EU	98	20	246	50	SKIN			
TLV-ACGIH		97	20						



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SECTION 8. Exposure controls/personal protection

	QUARTZ									
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
VLA	ESP		0,05			RESP				
VLEP	FRA	0,1				RESP				
GVI/KGVI	HRV	0,1								
VLEP	ITA	0,1				RESP				
TGG	NLD	0,075				RESP				
VLE	PRT	0,025				RESP				
NDS/NDSCh	POL	0,1				RESP				
TLV	ROU	0,1				RESP				
MV	SVN	0,15				RESP				
OEL	EU	0,1				RESP				
TLV-ACGIH		0,025				RESP				

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

The following should be considered when choosing work glove material (see standard EN 374): 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 II 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	black
Odour	amino
Melting point / freezing point	not available
Initial boiling point	not available
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available

Information



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SECTION 9. Physical and chemical properties .../>>

Flash point
Auto-ignition temp

Auto-ignition temperature Decomposition temperature

рΗ

Kinematic viscosity Solubility

Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density Particle characteristics not available not available 10,3 not available

CAN BE DILUTED not available not available 1,082 kg/l not available 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 2004/42/EC): 1,64 % - 17,78 g/litre VOC (volatile carbon) 0,08 % - 0,89 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and displays in water and in organic solvents. With air it may slowly form ay

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

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.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

10.4. Conditions to avoid

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

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

2-BUTOXYETHANOL

May develop: hydrogen.



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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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

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

Tetraethylenepentamine

LD50 (Dermal): 660 mg/kg Rabbit

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 2100 mg/kg Rat

STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

POLY(PROPYLENE GLYCOL) BIS(2-AMINOPROPYL ETHER)

LD50 (Dermal): 2979,7 mg/kg Rabbit LD50 (Oral): 2885,3 mg/kg Rat

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 13000 mg/kg Rabbit

 LD50 (Oral):
 5300 mg/kg Rat

 LC50 (Inhalation vapours):
 54,6 mg/l/4h Rat

DIETHYLENETRIAMINE

 LD50 (Dermal):
 1045 mg/kg Rabbit

 LD50 (Oral):
 1140 mg/kg Rat

 LC50 (Inhalation vapours):
 1,8 mg/l/4h Rat

2-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 3 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin



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SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Tetraethylenepentamine

LC50 - for Fish 420 mg/l/96h Fish EC50 - for Crustacea 24 mg/l/48h Daphnia EC50 - for Algae / Aquatic Plants 6,8 mg/l/72h 0,5 mg/l/72h EC10 for Algae / Aquatic Plants

Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)]

EC50 - for Crustacea 10 mg/l/48h Daphnia magna

POLY(PROPYLENE GLYCOL) BIS(2-AMINOPROPYL ETHER)

772,14 mg/l/96h Fish LC50 - for Fish EC50 - for Crustacea 80 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants 15 mg/l/72h Algae

12.2. Persistence and degradability

2-BUTOXYETHANOL

1000 - 10000 mg/l Solubility in water

Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

@EPY 11.5.2 - SDS 1004.14





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SECTION 12. Ecological information .../>>

DIETHYLENETRIAMINE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

DIETHYLENETRIAMINE

Partition coefficient: n-octanol/water -5,58

12.4. Mobility in soil

DIETHYLENETRIAMINE

Partition coefficient: soil/water 3,4

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 or ID 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





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SECTION 14. Transport information .../>>

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

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/EU: 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

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

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 Regulation (EU) 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.

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

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. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Skin Corr. 1B
Skin Corrosion, category 1B
Skin Corr. 1C
Skin corrosion, category 1C
Eye Dam. 1
Eye Irrit. 2
Skin Irrit. 2
Skin Irrit. 2
Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3



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Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.

H330Fatal if inhaled.H331Toxic if inhaled.H302Harmful if swallowed.H312Harmful in contact with skin.

H372 Causes damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H325 May agus require to reprint a repr

H335
 H317
 H336
 H34
 May cause an allergic skin reaction.
 H35
 H36
 H37
 H37
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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)



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- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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 / 12 / 13 / 14.