

Code.

UFI :

Name

NORD RESINE S.p.A.

357 - SW SOLID (B)

Revision nr.11 Dated 09/07/2024 Printed on 09/07/2024 Page n. 1 / 15 Replaced revision:10 (Dated 19/09/2023)

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 357 Product name SW SOLID (B) 2D50-705H-5004-RDP4 1.2. Relevant identified uses of the substance or mixture and uses advised against WATER-BASED EPOXY IMPREGNATING AGENT Intended use 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 (TV) Italia Tel. +39 0438-437511

+39 0/38-/35155

e-mail address of the competent person	Fax +39 0430-435155
responsible for the Safety Data Sheet	annabreda@nordresine.com
Supplier:	NORD RESINE S.p.A.
1.4. Emergency telephone number	

Fax

SECTION 2. Hazards identification

For urgent inquiries refer to

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.

+39 0438 437511

Hazard classification and indication:		
Skin corrosion, category 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

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:

ΕN



SECTION 2. Hazards identification ... / >>

H314	Causes severe skin burns and eye damage.								
H317	May cause an allergic skin reaction.								
H411	Toxic to aquatic life with long lasting effects.	, ,							
Precautionary statements:									
P260	Do not breathe dust / fume / gas / mist / vapou	urs / spray.							
P305+P351+P338	IF IN EYES: Rinse cautiously with water for se do. Continue rinsing.	everal minutes. Remove contact lenses, if present and easy to							
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all	contaminated clothing. Rinse skin with water [or shower].							
P280	Wear protective gloves/ protective clothing / e								
P310	Immediately call a POISON CENTER / doctor								
P264	Wash thoroughly with water and soap after ha	Indling.							
Contains:	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia 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 Amines, polyethylenepoly-, tetraethylenepentamine fraction Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)] DIETHYLENETRIAMINE								
VOC given in g/litre of produc Limit value:	ce coatings for specific end use such as floors. t in a ready-to-use condition :	35,39 140,00							
- Catalysed with :	200,00 %	SW 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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
•	e, polymer with N1-(diylbis(oxymethyle)	• / • •	-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,
INDEX EC	885-937-0	25 ≤ x < 35	Skin Sens. 1 H317, Aquatic Chronic 2 H411
CAS Phenol, 4,4'-(1	180583-06-6 -methylethylidene)	bis-,polymer with N-(2-a	aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega
			olymer with oxirane 2-aminopropyl methyl ether
INDEX EC		25 ≤ x < 35	Eye Dam. 1 H318
CAS	2588261-05-4		
Reaction prod	lucts of di-, tri- and	tetra-propoxylated prop	pane-1,2-diol with ammonia
INDEX		1 ≤ 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		
Amines, polye	thylenepoly-, tetrae	hylenepentamine frac	tion
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, LD50 Dermal: 1260 mg/kg
CAS	90640-66-7		•••
REACH Reg.	01-2119487290-37		



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SECTION 3. Composition/information on ingredients/>>

1-METHOXY-	2-PROPANOL		
INDEX	603-064-00-3	0 ≤ x < 0,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-539-1		
CAS	107-98-2		
REACH Reg.	01-2119457435-35		
DIETHYLENE	TRIAMINE		
INDEX	612-058-00-X	0 ≤ x < 0,5	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
EC	203-865-4		LD50 Oral: 1553 mg/kg, LD50 Dermal: 1045 mg/kg, STA Inhalation vapours: 0.501 mg/l
CAS REACH Reg.	111-40-0 01-2119473793-27		

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: see section 4.1

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).

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



SECTION 6. Accidental release measures/>>

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 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 si 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)



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

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. ACGIH 2022

TLV-ACGIH

OEL EU

Amines, polyethylenepoly-, tetraethylenepentamine fraction

Predicted no-effect cor	centration -	PNEC						
Normal value in fresh	water	0,01	mg/l					
Normal value in marir	ne water					0,001	mg/l	
Normal value for fres	h water sedir	nent				3,198	mg/kg/d	
Normal value for mar	ine water sec	diment				0,3198	mg/kg/d	
Normal value for mar	ine water, int	ermittent releas	е			0,068	mg/l	
Normal value for fres	h water, inter	mittent release				0,0068	mg/l	
Normal value of STP	microorganis	sms				4,6	mg/l	
Normal value for the	terrestrial cor	mpartment				2,5	mg/kg/d	
lealth - Derived no-effe	ect level - Di	NEL / DMEL						
	Effects on	consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		NPI		0,21 mg/kg bw/d				
Inhalation	HIGH		HIGH	0,14 mg/m3	HIGH		HIGH	0,82 mg/m3
Skin	HIGH	HIGH	0,0208 mg/cm2	NPI	HIGH	HIGH	0,25 mg/cm2	NPI

	Reaction	products of di-,	tri- and tetra-p	ropoxylated p	ropane-1,2-di	ol with ammonia	l i	
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,015	mg/l	
Normal value in mari	ne water	0,0142	mg/l					
Normal value for fres	0,132	mg/kg						
Normal value for mar	0,125	mg/kg						
Normal value for wate	0,15	mg/l						
Normal value of STP microorganisms							mg/l	
Normal value for the food chain (secondary poisoning)							mg/kg	
Normal value for the terrestrial compartment							mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	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
Inhalation								5,29
								mg/m3
Skin							0,623	2,5
								mg/kg
								bw/d



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				1-METHOX	(-2-PROPANO	L			
reshold Limit V									
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
	075	mg/m3	ppm	mg/m3	ppm	0.00			
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	Allegato XX	<xviii d.lgs<="" td=""><td>. 81/08</td></xviii>	. 81/08
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 concentra	ation - PNE	С						
Normal value ir	n fresh water						10	mg/l	
Normal value in	n marine wate	ər					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 of	f STP microc	organisms					100	mg/l	
Normal value for	or the terrest	rial comparti	nent				4,59	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
Effects on consumers				Effects on w	orkers				
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
· ·	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral					33				
					mg/kg bw/d				
Inhalation					43,9	553,5			369
					mg/m3	mg/m3			mg/m3
Skin					78	0			183
					mg/kg bw/d				mg/kg
					-33 <i>i</i> , -				bw/d

EN



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

				DIETHYL	ENETRIAMINE				
Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	4	0,932	8	1,864				
VLA	ESP	4,3	1			SKIN			
VLEP	FRA	4	1						
TLV	GRC	4	1						
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	ct concentra	ation - PNE	C						
Normal value in	Normal value in fresh water						0,56	mg/l	
Normal value in	marine wate	er					0,056	mg/l	
Normal value fo	r fresh wate	r sediment					1072	mg/kg	
Normal value fo	r marine wa	ter sedimer	ıt				107,2	mg/kg	
Normal value fo	r marine wa	ter, intermit	tent release				0,32	mg/l	
Normal value of	STP microc	organisms					6	mg/l	
Normal value fo	r the terrest	ial compart	ment				7,97	mg/kg/d	
Health - Derived n	o-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on w	orkers		
Route of exposu	ure Acu	te Ac	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sy	stemic	local	systemic	local	systemic	local	systemic
Inhalation		27	,5		4,6	2,6	92,1	0,87	15,4
		m	g/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		4,8	38		4,88	MED	NPI	1,1	11,4
		m	g/kg bw/d		mg/kg bw/d			mg/cm2	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 ; 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 your hands with category III work gloves.

For the final choice of the material of work gloves (ref. standard EN 374) the following must be considered: compatibility, degradation, breakage and permeation time.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. The gloves have a wear time that depends on the duration and method of use.

Suitable materials for protective gloves; EN ISO 374:

Polyvinyl alcohol - PVA: thickness -; breakthrough time >= 480min.

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.

EYÉ 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

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

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

Browseties	Value	Information
Properties	Value	Information
Appearance		
Colour Odour	AMBER LIKE	
Odour threshold	characteristic not determined	Peacen for missing data not determined
Melting point / freezing point		Reason for missing data:not determined Reason for missing data:not determined
Initial boiling point	not determined not determined	5
Flammability	not flammable	Reason for missing data:not determined
Lower explosive limit	not determined	Reason for missing data:not determined
Upper explosive limit	not determined	Reason for missing data.not determined
Flash point	> 100 °C	Reason for missing data.not determined
Auto-ignition temperature	not determined	Reason for missing data:not determined
Decomposition temperature	not determined	Reason for missing data:not determined
pH	10,3	Method:ISO 4316
Kinematic viscosity	not determined	Reason for missing data:not determined
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not available	Reason for missing data:not determined
Density and/or relative density	1,07 kg/l	Method:EN ISO 1675
Relative vapour density	not determined	Reason for missing data:not determined
Particle characteristics	not applicable	,
9.2. Other information		
9.2.1. Information with regard to physical ha	zard classes	
Information not available		
9.2.2. Other safety characteristics		
VOC (Directive 2004/42/EC) :	1,64 % - 17,56 g/litre	
SECTION 10. Stability and react	ivity	
10.1. Reactivity		
There are no particular risks of reaction with	other substances in normal conditions of use	e.

1-METHOXY-2-PROPANOL

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

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

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.

10.4. Conditions to avoid

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

1-METHOXY-2-PROPANOL

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SECTION 10. Stability and reactivity/>>

Avoid exposure to: air.

10.5. Incompatible materials

Amines, polyethylenepoly-, tetraethylenepentamine fraction

Incompatible with: acids,chlorinated hydrocarbons,oxidising agents,copper,cobalt,nickel,copper alloys. 1-METHOXY-2-PROPANOL

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

10.6. Hazardous decomposition products

Amines, polyethylenepoly-, tetraethylenepentamine fraction May develop: nitrous gases.

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

Amines, polyethylenepoly-, tetraethylenepentamine f	raction
LD50 (Dermal):	1260 mg/kg Rabbit
LD50 (Oral):	3221 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)
	non an a 1 O dial with an manual

Reaction products of di-, tri- and tetra-propoxyla	ted propane-1,2-diol with ammonia	
LD50 (Dermal):	2979,7 mg/kg Rabbit	
LD50 (Oral):	2885,3 mg/kg Rat	
1-METHOXY-2-PROPANOL		
LD50 (Dermal):	> 2000 mg/kg Rat	

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

DIETHYLENETRIAMINE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

1045 mg/kg Rabbit 1553 mg/kg Rat 0,07 mg/l/4h Rat

> 3739 mg/kg Rat 30,02 mg/l/4h Rat



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SECTION 11. Toxicological information ... / >>

STA (Inhalation vapours):

0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

Corrosive for the skin

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Species: rabbit Classification: corrosive Method: OECD 404

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Species: rabbit Classification: Causes serious eye damage Method: OECD 405

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Gases or vapors in high concentrations can irritate the respiratory tract. The exposition prolonged or repeated use may cause the following adverse effects: Sore throat. The vapours/spray of aerosols can irritate the respiratory tract.

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity



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SECTION 12. Ecological information ... / >>

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DIETHYLENETRIAMINE LC50 - for Fish	430 mg/l/96h Poecilia reticulata
EC50 - for Crustacea	32 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	1164 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 10 mg/l 28 d
Chronic NOEC for Crustacea	5,6 mg/l 21 d
Amines, polyethylenepoly-, tetraethylenepentamine fract	
LC50 - for Fish EC50 - for Crustacea	420 mg/l/96h Fish 24,1 mg/l/48h Daphnia
EC50 - for Algae / Aguatic Plants	6.8 mg/l/72h
EC10 for Algae / Aquatic Plants	0,5 mg/l/72h
Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2 EC50 - for Crustacea	2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)] 10 mg/l/48h Daphnia magna
Reaction products of di-, tri- and tetra-propoxylated propa	ane-1,2-diol with ammonia
LC50 - for Fish	> 15 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	80 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	15 mg/l/72h Selenastrum capricornutum
EC10 for Algae / Aquatic Plants	1,4 mg/l/72h Selenastrum capricornutum
12.2. Persistence and degradability	
1-METHOXY-2-PROPANOL Solubility in water	1000 - 10000 mg/l
Rapidly degradable	1000 - 10000 mg/
DIETHYLENETRIAMINE	
Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	87% (21d, OECD 301D)
Amines, polyethylenepoly-, tetraethylenepentamine fract NOT rapidly degradable	ion
Reaction products of di-, tri- and tetra-propoxylated propa NOT rapidly degradable	ane-1,2-diol with ammonia
12.3. Bioaccumulative potential	
1-METHOXY-2-PROPANOL	
Partition coefficient: n-octanol/water	<1
Amines, polyethylenepoly-, tetraethylenepentamine fract	
Partition coefficient: n-octanol/water	-2,6
Reaction products of di-, tri- and tetra-propoxylated propa Partition coefficient: n-octanol/water	ane-1,2-diol with ammonia 1,34 Log Kow
12.4. Mobility in soil	
Information not available	
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does not cont	ain any PBT or vPvB in percentage ≥ than 0,1%.
12.6. Endocrine disrupting properties	
Based on the available data, the product does not contai disruptors with environmental effects under evaluation.	n substances listed in the main European lists of potential or suspected endocrine
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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3082

ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraethylenepentamine; POLY(PROPYLENE
	GLYCOL) BIS(2-AMINOPROPYL ETHER))
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraethylenepentamine; POLY(PROPYLENE
	GLYCOL) BIS(2-AMINOPROPYL ETHER); Formaldehyde, polymer with
	N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)])
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraethylenepentamine; POLY(PROPYLENE
	GLYCOL) BIS(2-AMINOPROPYL ETHER))

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	
IATA:	Class: 9	Label: 9	

14.4. Packing group

ADR / RID, IMDG, IATA: III



ΕN

SECTION 14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	
IMDG:	Marine Pollutant	
IATA:	Environmentally Hazardous	

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274,	335, 375, 601	
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

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:

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

F2

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 \geq 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.



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SECTION 16. Other information

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

Flam. Liq. 3 Acute Tox. 2 Acute Tox. 4	Flammable liquid, category 3 Acute toxicity, category 2 Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
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.
H330	Fatal if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
	-

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



SECTION 16. Other information ... / >>

- 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)
- 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 / 03 / 04 / 08 / 09 / 10 / 11 / 12.