

18I - SOLID (A)

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Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

181 Code: Product name SOLID (A)

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

PRIMER FOR MOIST SUBSTRATES.

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 Fax +39 0438-435155

e-mail address of the competent person

responsible for the Safety Data Sheet

annabreda@nordresine.com

Product distribution by: 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

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:

Eye irritation, category 2 H319 Causes serious eve irritation. Skin irritation, category 2 H315 Causes skin irritation.

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: Warning

Hazard statements:

H319 Causes serious eye irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.



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SECTION 2. Hazards identification .../>>

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

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

and local requirements.

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

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

P261 Avoid breathing 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.

Contains: REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Reaction product: Bisphenol-F- (epichlorohydrin); epoxy resin

VOC (Directive 2004/42/EC):

Two - pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition : 39,56
Limit value: 140,00
- Catalysed with : 40,00 % SOLID (B)

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

CAS 25068-38-6 9 ≤ x < 20 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 500-033-5 INDEX 603-074-00-8 Reg. no. 01-2119456619-26

Reaction product: Bisphenol-F- (epichlorohydrin); epoxy resin

CAS 9003-36-5 5 ≤ x < 9 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 500-006-8

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Reg. no. 01-2119454392-40

1-METHOXY-2-PROPANOL

CAS 107-98-2 $1 \le x < 5$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 INDEX 603-064-00-3 Req. no. 01-2119457435-35

BENZYL ALCOHOL

CAS 100-51-6 $1 \le x < 5$ Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 202-859-9 INDEX 603-057-00-5 Reg. no. 01-2119492630-38

Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides

CAS $61789-72-8 \quad 0 \le x < 0.25$ Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318,

Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 263-081-3

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QUARTZ

CAS 14808-60-7 0 ≤ x < 1

STOT RE 2 H373

EC 238-878-4

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SECTION 3. Composition/information on ingredients

2-BUTOXYETHANOL

CAS 111-76-2 0 ≤ x < 1 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315

EC 203-905-0 INDEX 603-014-00-0 Reg. no. 01-2119475108-36

AMMONIA

CAS 1336-21-6 $0 \le x < 1$ Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1,

Classification note according to Annex VI to the CLP Regulation: B

EC 215-647-6 INDEX 007-001-01-2 Reg. no. 01-2119488876-14

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

SECTION 4. First aid measures

4.1. Description of first aid measures

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

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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 procedures.



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SECTION 6. Accidental release measures .../>>

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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. 246/2018 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	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
DOL	D 1.1	agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
NOU	Nomania	privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
•	o.o.roju	delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020



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mg/kg

SECTION 8. Exposure controls/personal protection

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)											
Predicted no-effect co	ncentration	- PNEC									
Normal value in fres	h water	0,006	mg//l								
Normal value in marine water							mg/l				
Normal value for free	sh water sedi	0,996	mg/kg								
Normal value for ma	rine water se	diment				0,0996	mg/kg				
Health - Derived no-ef	fect level - D	NEL / DMEL									
	Effects on consumers Effects on worke										
	Elicoto di	i consumers			LIICCIS OII W	OIRCIS					
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic			
Route of exposure			Chronic local	Chronic systemic			Chronic local	Chronic systemic			
Route of exposure Oral	Acute	Acute			Acute	Acute					
·	Acute	Acute	local	systemic	Acute	Acute					
·	Acute	Acute	local	systemic 0,75	Acute	Acute					
Oral	Acute	Acute	local	systemic 0,75	Acute	Acute	local	systemic			

mg/kg/d

				1-METHOXY	/-2-PROPANO	L			
reshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15min		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				
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 concentra	ation - PNE	С						
Normal value in	r fresh water						10	mg/l	
Normal value in	n marine wate	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	f STP microc	organisms					100	mg/l	
Normal value for			ment				4,56	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL					0 0	
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	loca	ıl sys	stemic	local	systemic	local	systemic	local	systemic
Oral		,			3,3		•		,
					mg/kg bw/d				
Inhalation					43,9				369
					mg/m3				mg/m3
Skin					78				183
					mg/kg bw/d				mg/kg
					J. J				bw/d

BENZYL ALCOHOL											
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations				
		mg/m3	ppm	mg/m3	ppm						
TLV	CZE	40	8,88	80	17,76						
AGW	DEU	22	5	44	10	SKIN	11				
NDS/NDSCh	POL	240									
MV	SVN	22	5	44	10	SKIN					



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SECTION 8. Exposure controls/personal protection

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Q	uaternary a	mmonium comp	oounds, benzyl	(hydrogenated	tallow alkyl)	dimethyl, chlori	des	
Health - Derived no-eff	ect level - D	NEL / DMEL						
Effects on consumers Effects on workers								
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				1,64				3,96
				mg/kg				mg/kg
Skin				3,4				5,7
				mg/kg bw/d				mg/kg
								bw/d

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

				2-BUTO	XYETHANOL			
Threshold Limit \	/alue							
Type	Country	TWA/8h		STEL/15	min	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 Hinwe	eis	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
TLV	GRC	120	25					
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					

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

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends



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Information

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

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 liquid Appearance Colour white characteristic Odour Odour threshold Not available Not available Melting point / freezing point 0 °C Not available Initial boiling point Boiling range Not available 100 Flash point °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure 15 mmHg Vapour density Not available Relative density 1,09 kg/l Solubility CAN BE DILUTED Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available Not available Explosive properties Oxidising properties Not available

9.2. Other information

 VOC (Directive 2004/42/EC):
 5,09 % - 55,50
 g/litre

 VOC (volatile carbon):
 2,93 % - 31,93
 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 disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

@EPY 10.3.0 - SDS 1004.13



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SECTION 10. Stability and reactivity .../>>

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

AMMONIA

Corrodes: aluminium,iron,zinc,copper,copper alloys.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

1-METHOXY-2-PROPANOL

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

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

2-BUTOXYETHANOL

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

AMMONIA

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

BENZYL ALCOHOL

Avoid exposure to: air.sources of heat.naked flames.

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.

BENZYL ALCOHOL

 $Incompatible\ with: sulphuric\ acid, oxidising\ substances, aluminium.$

AMMONIA

 $Incompatible\ with:\ silver, silver\ salts, lead, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc\ salts, hydrochloric\ acid, nitric\ salts, lead\ salts, zinc\ salts, hydrochloric\ salts, lead\ salts, lead\ salts, zinc\ salts, hydrochloric\ salts, lead\ salts, lead\ salts, lead\ salts, lead\ salts, zinc\ salts, lead\ salts, lea$

 $acid, oleum, halogens, acrolein, nitromethane, acrylic\ acid.$

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-BUTOXYETHANOL

May develop: hydrogen.

AMMONIA

May develop: nitric oxide.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, 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.



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SECTION 11. Toxicological information

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) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

AMMONIA

LD50 (Oral) 350 mg/kg Rat

2-BUTOXYETHANOL

 LD50 (Oral)
 615 mg/kg Rat

 LD50 (Dermal)
 405 mg/kg Rabbit

 LC50 (Inhalation)
 2,2 mg/l/4h Rat

BENZYL ALCOHOL

 LD50 (Oral)
 1230 mg/kg Rat

 LD50 (Dermal)
 2000 mg/kg Rabbit

 LC50 (Inhalation)
 > 4,1 mg/l/4h Rat

1-METHOXY-2-PROPANOL

 LD50 (Oral)
 5300 mg/kg Rat

 LD50 (Dermal)
 13000 mg/kg Rabbit

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

Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides

LD50 (Oral) 398 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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



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.../>> **SECTION 11. Toxicological information**

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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

AMMONIA

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

BENZYL ALCOHOL

10 mg/l/96h Bluegill LC50 - for Fish

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

1,5 mg/l/96h Fish

Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides

0,1 mg/l/96h Fish LC50 - for Fish EC50 - for Crustacea 0,059 mg/l/48h Daphnia

EC50 - for Algae / Aquatic Plants 0,11 Algae

12.2. Persistence and degradability

AMMONIA

Degradability: information not available

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

1-METHOXY-2-PROPANOL

1000 - 10000 mg/l Solubility in water

Rapidly degradable

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

12.3. Bioaccumulative potential

2-BUTOXYETHANOL

0,81 Partition coefficient: n-octanol/water

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Partition coefficient: n-octanol/water > 2,918 **BCF**

Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides





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SECTION 12. Ecological information .../>>

12.4. Mobility in soil

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Partition coefficient: soil/water

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. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

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

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Information not relevant

SECTION 15. Regulatory information

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



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Seveso Category - Directive 2012/18/EC:

None

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

Product

Point 3 - 4

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

VOC (Directive 2004/42/EC):

Two - pack performance coatings.

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. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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

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

Harmful in contact with skin.

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, 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. **H302** Harmful if swallowed.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

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.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

H312

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number



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

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for





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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 / 05 / 08 / 09 / 10 / 11 / 12 / 15 / 16.