

Revision nr.3 Dated 12/12/2019 Printed on 12/12/2019 Page n. 1 / 18 Replaced revision:2 (Dated 30/08/2017) ΕN

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

1.1. Product identifier			
Code: Product name	38Q NORPHEN LEVEL (A)		
1.2. Relevant identified uses of the substance	or mixture and uses advised against		
Intended use	SELF-LEVELLING EPOXY COAT	ING.	
1.3. Details of the supplier of the safety data s	heet		
Name Full address District and Country	NORD RESINE S.p.A. Via Fornace Vecchia, 79 31058 Susegana Italia Tel. +39 0438-437511 Fax +39 0438-435155	(TV)	
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 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Eye irritation, category 2	H319	Causes serious eye 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 toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

#### 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:H319Causes serious eye irritation.H315Causes skin irritation.H317May cause an allergic skin reaction.H411Toxic to aquatic life with long lasting effects.



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## SECTION 2. Hazards identification ... / >>

EUH205	Contains e	epoxy constituents. May produce	an allergic reaction.	
EUH208	Contains:	PINE OIL	5	
		CRESYL GLYCIDYL E	THER	
	May produ	ice an allergic reaction.		
Precautionary				
P280 P273		ective gloves / eye protection / fa ase to the environment.	ce protection.	
P391	Collect spi			
P261		athing dust / fume / gas / mist / va	pours / sprav.	
P333+P31	3 If skin irrita	ation or rash occurs: Get medical	advice / attention.	
P337+P31	3 If eye irrita	tion persists: Get medical advice	/ attention.	
Contains:		N PRODUCT: BISPHENOL A-(E		
		product: Bisphenol-F- (epichloroh 12-14) GLYCIDYL ETHER	ydriff), epoxy resift	
	ALKIL (C	12-14) GET GIDTE ETTIER		
VOC (Directiv	(a 2004/42/EC) .			
	/e 2004/42/EC) : formance coatings.			
	g/litre of product in a rea	adv-to-use condition :	150,90	
Limit value:	9,		500,00	
- Catalysed w	/ith :	47,62 %	NORPHEN LEVEL (B)	
-				
2.3. Other hazaı	rds			
On the basis	of available data the pro	duat daga nat contain any DPT a	r vPvB in percentage greater than 0,1%.	
On the basis of	oi avaliable data, tile pro	duct does not contain any FDT of	ve vo in percentage greater than 0,176.	
<b>SECTION 3</b>	. Composition/in	formation on ingredie	nts	
3.2. Mixtures				
Containa				
Contains:				
Contains: Identification	x = Conc. %	6 Classification 127	2/2008 (CLP)	
Identification			2/2008 (CLP)	
Identification	RODUCT: BISPHENOL	_ A-(EPICHLORHYDRIN)		
Identification		_ A-(EPICHLORHYDRIN)	2/2008 (CLP) Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification REACTION P CAS	<b>PRODUCT: BISPHENOI</b> 25068-38-6 50 ≤ x	_ A-(EPICHLORHYDRIN)		
Identification <b>REACTION P</b> CAS EC INDEX Reg. no.	PRODUCT: BISPHENOL 25068-38-6 50 ≤ x - 500-033-5 603-074-00-8 01-2119456619-26	<b>_ A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$		
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12</b> -	PRODUCT: BISPHENOI 25068-38-6 50 ≤ x 500-033-5 603-074-00-8 01-2119456619-26 -14) GLYCIDYL ETHER	<b>- A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12</b> - CAS	PRODUCT: BISPHENOI 25068-38-6 50 ≤ x 500-033-5 603-074-00-8 01-2119456619-26 •14) GLYCIDYL ETHER 68609-97-2 20 ≤ x	<b>- A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$		
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC	PRODUCT: BISPHENOI 25068-38-6 50 ≤ x + 500-033-5 603-074-00-8 01-2119456619-26 •14) GLYCIDYL ETHER 68609-97-2 20 ≤ x + 271-846-8	<b>- A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12</b> - CAS EC INDEX	<b>PRODUCT: BISPHENOL</b> $25068-38-6$ $50 \le x + 500-033-5$ 603-074-00-8 01-2119456619-26 <b>-14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x + 271-846-8$ 603-103-00-4	<b>- A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no.	PRODUCT: BISPHENOI $25068-38-6$ $50 \le x \le 500-033-5$ $500-033-5$ $603-074-00-8$ $01-2119456619-26$ $01-2119456619-26$ <b>14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ $603-103-00-4$ $01-2119485289-22$	<b>- A-(EPICHLORHYDRIN)</b> < 75 Eye Irrit. 2 H319, \$ < 30 Skin Irrit. 2 H315,	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b>	PRODUCT: BISPHENOL 25068-38-6 50 ≤ x + 500-033-5 603-074-00-8 01-2119456619-26 -14) GLYCIDYL ETHER 68609-97-2 20 ≤ x + 271-846-8 603-103-00-4 01-2119485289-22 oduct: Bisphenol-F- (ep	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, bichlorohydrin); epoxy resin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no.	PRODUCT: BISPHENOI $25068-38-6$ $50 \le x \le 500-033-5$ $500-033-5$ $603-074-00-8$ $01-2119456619-26$ $01-2119456619-26$ <b>14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ $603-103-00-4$ $01-2119485289-22$	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, bichlorohydrin); epoxy resin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b> CAS	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x \le 500-033-5$ $603-074-00-8$ $01-2119456619-26$ $14$ ) GLYCIDYL ETHER $68609-97-2$ $20 \le x \le 271-846-8$ $603-103-00-4$ $01-2119485289-22$ oduct: Bisphenol-F- (ep 28064-14-4) $10 \le x \le 364-14-4$	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, bichlorohydrin); epoxy resin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b> CAS EC	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x \le 500-033-5$ $603-074-00-8$ $01-2119456619-26$ $14$ ) GLYCIDYL ETHER $68609-97-2$ $20 \le x \le 271-846-8$ $603-103-00-4$ $01-2119485289-22$ oduct: Bisphenol-F- (ep 28064-14-4) $10 \le x \le 364-14-4$	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, bichlorohydrin); epoxy resin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b> CAS EC INDEX Reg. no.	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x + 500-033-5$ $500-033-5$ $603-074-00-8$ $01-2119456619-26$ $01-2119456619-26$ <b>14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x + 271-846-8$ $603-103-00-4$ $01-2119485289-22$ <b>oduct: Bisphenol-F- (ep</b> $28064-14-4$ $10 \le x + 500-006-8$	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, \$</li> <li>30 Skin Irrit. 2 H315,</li> <li>bichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> <i>CAS</i> <i>EC</i> <i>INDEX</i> <i>Reg. no.</i> <b>ALKYL (C12-</b> <i>CAS</i> <i>EC</i> <i>INDEX</i> <i>Reg. no.</i> <b>Reaction pro</b> <i>CAS</i> <i>EC</i> <i>INDEX</i> <i>Reg. no.</i>	PRODUCT: BISPHENOL 25068-38-6 $50 \le x + 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2 20 \le x + 271-846-8$ 603-103-00-4 01-2119485289-22 <b>:Dduct: Bisphenol-F- (ep</b> $28064-14-4 10 \le x + 500-006-8$ 01-2119454392-40	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, sichlorohydrin); epoxy resin < 20 Skin Irrit. 2 H315, 1 Muta. 2 H341, Skin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b> CAS EC INDEX Reg. no. <b>CRESYL GLY</b> CAS EC	PRODUCT: BISPHENOL 25068-38-6 $50 \le x + 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2 20 \le x + 271-846-8$ 603-103-00-4 01-2119485289-22 <b>oduct: Bisphenol-F- (ep</b> $28064-14-4 10 \le x + 500-006-8$ 01-2119454392-40 <b>YCIDYL ETHER</b>	A-(EPICHLORHYDRIN) < 75 Eye Irrit. 2 H319, 9 < 30 Skin Irrit. 2 H315, sichlorohydrin); epoxy resin < 20 Skin Irrit. 2 H315, 1 Muta. 2 H341, Skin	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification <b>REACTION P</b> CAS EC INDEX Reg. no. <b>ALKYL (C12-</b> CAS EC INDEX Reg. no. <b>Reaction pro</b> CAS EC INDEX Reg. no. <b>CRESYL GLY</b> CAS EC INDEX	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x + 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x + 271-846-8$ 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (ep $28064-14-4$ $10 \le x + 500-006-8$ 01-2119454392-40 YCIDYL ETHER $26447-14-3$ $0 \le x < 247-711-4$	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, s</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Identification REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY-	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x + 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x + 271-846-8$ 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (ep $28064-14-4$ $10 \le x + 500-006-8$ 01-2119454392-40 YCIDYL ETHER $26447-14-3$ $0 \le x < 247-711-4$ -1-METHYLETHYL ACE	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, s</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C	
Identification  REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS	PRODUCT: BISPHENOL $25068-38-6$ $50 \le x \le 500-033-5$ $603-074-00-8$ $01-2119456619-26$ <b>-14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ $603-103-00-4$ $01-2119485289-22$ oddet: Bisphenol-F- (ep) $28064-14-4$ $10 \le x \le 500-006-8$ $01-2119454392-40$ $YCIDYL ETHER$ $26447-14-3$ $0 \le x < 247-711-4$ <b>-1-METHYLETHYL ACEE</b> $108-65-6$ $0 \le x < 28 < 28 < 28 < 28 < 28 < 28 < 28 < $	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, s</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C	
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Identification  REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS EC INDEX	PRODUCT: BISPHENOL 25068-38-6 $50 \le x \le 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (epp $28064-14-4$ $10 \le x \le 500-006-8$ 01-2119454392-40 YCIDYL ETHER $26447-14-3$ $0 \le x < 247-711-4$ <b>:1-METHYLETHYL ACE</b> $108-65-6$ $0 \le x < 203-603-9$ 607-195-00-7	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, s</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C	
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Identification  REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS EC INDEX	PRODUCT: BISPHENOL 25068-38-6 $50 \le x \le 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (epp $28064-14-4$ $10 \le x \le 500-006-8$ 01-2119454392-40 YCIDYL ETHER $26447-14-3$ $0 \le x < 247-711-4$ <b>:1-METHYLETHYL ACE</b> $108-65-6$ $0 \le x < 203-603-9$ 607-195-00-7	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, S</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> <li>ETATE</li> <li>1 Flam. Liq. 3 H226,</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C	
Identification  REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS EC INDEX Reg. no. PINE OIL	PRODUCT: BISPHENOL 25068-38-6 $50 \le x \le$ 500-033-5 603-074-00-8 01-2119456619-26 -14) GLYCIDYL ETHER 68609-97-2 $20 \le x \le$ 271-846-8 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (ep 28064-14-4 $10 \le x \le$ 500-006-8 01-2119454392-40 YCIDYL ETHER 26447-14-3 $0 \le x <$ 247-711-4 -1-METHYLETHYL ACE 108-65-6 $0 \le x <$ 203-603-9 607-195-00-7 01-2119475791-29	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, S</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> <li>ETATE</li> <li>1 Flam. Liq. 3 H226,</li> <li>1 Flam. Liq. 3 H226,</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C	
Identification  REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS EC INDEX Reg. no. PINE OIL	PRODUCT: BISPHENOL 25068-38-6 $50 \le x \le$ 500-033-5 603-074-00-8 01-2119456619-26 -14) GLYCIDYL ETHER 68609-97-2 $20 \le x \le$ 271-846-8 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (ep 28064-14-4 $10 \le x \le$ 500-006-8 01-2119454392-40 YCIDYL ETHER 26447-14-3 $0 \le x <$ 247-711-4 -1-METHYLETHYL ACE 108-65-6 $0 \le x <$ 203-603-9 607-195-00-7 01-2119475791-29	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, S</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> <li>ETATE</li> <li>1 Flam. Liq. 3 H226,</li> <li>1 Flam. Liq. 3 H226,</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C STOT SE 3 H336 Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315,	
Identification REACTION P CAS EC INDEX Reg. no. ALKYL (C12- CAS EC INDEX Reg. no. Reaction pro CAS EC INDEX Reg. no. CRESYL GLY CAS EC INDEX 2-METHOXY- CAS EC INDEX Reg. no. PINE OIL CAS	PRODUCT: BISPHENOL 25068-38-6 $50 \le x \le 500-033-5$ 603-074-00-8 01-2119456619-26 <b>:14) GLYCIDYL ETHER</b> $68609-97-2$ $20 \le x \le 271-846-8$ 603-103-00-4 01-2119485289-22 pduct: Bisphenol-F- (ep $28064-14-4$ $10 \le x \le 500-006-8$ 01-2119454392-40 YCIDYL ETHER $26447-14-3$ $0 \le x < 247-711-4$ <b>:1-METHYLETHYL ACEE</b> $108-65-6$ $0 \le x < 203-603-9$ 607-195-00-7 01-2119475791-29	<ul> <li>A-(EPICHLORHYDRIN)</li> <li>75 Eye Irrit. 2 H319, S</li> <li>30 Skin Irrit. 2 H315,</li> <li>sichlorohydrin); epoxy resin</li> <li>20 Skin Irrit. 2 H315,</li> <li>1 Muta. 2 H341, Skin Classification not</li> <li>ETATE</li> <li>1 Flam. Liq. 3 H226,</li> <li>1 Flam. Liq. 3 H226,</li> </ul>	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Skin Sens. 1 H317 Skin Sens. 1 H317, Aquatic Chronic 2 H411 n Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, e according to Annex VI to the CLP Regulation: C STOT SE 3 H336 Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315,	



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### SECTION 3. Composition/information on ingredients ..../>>

XYLENE (M	IXTURE OF ISOMERS)	
CAS	1330-20-7 0 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7	
INDEX	601-022-00-9	
Reg. no.	01-2119488216-32	
ETHYLBEN	ZENE	
CAS	<i>100-41-4</i> 0 ≤ x < 1	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
EC	202-849-4	
INDEX	601-023-00-4	
1-METHOX	Y-2-PROPANOL	
CAS	<i>107-98-2</i> 0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-539-1	
INDEX	603-064-00-3	
Reg. no.	01-2119457435-35	
Reaction m	ass of ethylbenzene and m-xyl	
CAS	0 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
EC INDEX	905-562-9	
Reg. no.	01-2119555267-33	
PHOSPHOR	RIC ACID	
CAS	7664-38-2 0 ≤ x < 1	Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC	231-633-2	
INDEX	015-011-00-6	
Reg. no.	01-2119485924-24	
METHYL ET	THYL KETONE	
CAS	78-93-3 0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-159-0	
INDEX	606-002-00-3	
Reg. no.	01-2119457290-43	

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.



## SECTION 5. Firefighting measures ..../>>

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### 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.

### 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. 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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,



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

		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINÝ, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 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 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
EU	OEL EU	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 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

#### REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,006	mg//l	
Normal value in marir	ne water					0,0006	mg/l	
Normal value for fresl	h water sedi	ment				0,996	mg/kg	
Normal value for mar	ine water se	diment				0,0996	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	0,75				
				mg/kg/d				
Inhalation							VND	12,25
								mg/m3
Skin			VND	3,571			VND	8,33
				mg/kg/d				mg/kg

#### ALKYL (C12-14) GLYCIDYL ETHER Predicted no-effect concentration - PNEC 0,0072 Normal value in fresh water mg/l Normal value in marine water 0,00072 mg/l Normal value for fresh water sediment 66,77 mg/kg Normal value for marine water sediment 6,677 mg/kg Normal value of STP microorganisms 10 mg/l Normal value for the terrestrial compartment 80,12 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Chronic Route of exposure Chronic Chronic Acute Chronic Acute Acute Acute local systemic local systemic local systemic local systemic 13,8 Inhalation mg/m3 3,9 Skin mg/kg bw/d



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

## 2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / C	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	49,95	550	101,75	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
TLV	GRC	275	50	550	100				
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550							
NDS/NDSCh	POL	260		520		SKIN			
VLE	PRT	275	50	550	100	SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value ir	n fresh water						0,635	mg/l	
Normal value in	n marine wate	ər					0,0635	mg/l	
Normal value for	or fresh wate	r sediment					3,29	mg/kg	
Normal value for	or marine wat	ter sedimen	t				0,329	mg/kg	
Normal value for	or water, inte	rmittent rele	ase				6,35	mg/l	
Normal value o	f STP microc	organisms					100	mg/l	
Normal value for	or the terrestr	rial comparti	nent				0,29	mg/kg	
Health - Derived I	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on wor	rkers		
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					1,67 mg/kg/d				
Inhalation					33				275
					mg/m3				mg/m3
Skin					54,8				153,5
					mg/kg/d				mg/kg/d

### XYLENE (MIXTURE OF ISOMERS)

			~		JKE OF 13	OWERS)
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	200	46	400	92	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
TLV	GRC	435	100	650	150	
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
NDS/NDSCh	POL	100		200		SKIN
VLE	PRT	221	50	442	100	SKIN
TLV	ROU	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	



Threehold Limit Value

# NORD RESINE S.p.A. 38Q - NORPHEN LEVEL (A)

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

ETHYLBENZENE											
Threshold Limit V	alue										
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	CZE	200	46	500	115	SKIN					
AGW	DEU	88	20	176	40	SKIN					
MAK	DEU	88	20	176	40	SKIN					
VLA	ESP	441	100	884	200	SKIN					
VLEP	FRA	88,4	20	442	100	SKIN					
WEL	GBR	441	100	552	125	SKIN					
TLV	GRC	435	100	545	125						
VLEP	ITA	442	100	884	200	SKIN					
TGG	NLD	215		430		SKIN					
NDS/NDSCh	POL	200		400		SKIN					
VLE	PRT	442	100	884	200	SKIN					
TLV	ROU	442	100	884	200	SKIN					
MV	SVN	442	100	884	200	SKIN					
OEL	EU	442	100	884	200	SKIN					
TLV-ACGIH		87	20								

## 1-METHOXY-2-PROPANOL

reshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	73,17	550	149,05	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	10	SKIN			
WEL	GBR	375	100	560	150	SKIN			
TLV	GRC	360	100	1080	300				
VLEP	ITA	375	100	568	150	SKIN			
TGG	NLD	375		563		SKIN			
NDS/NDSCh	POL	180		360		SKIN			
VLE	PRT	375	100	568	150				
TLV	ROU	375	100	568	150	SKIN			
MV	SVN	375	100	568	150	SKIN			
OEL	EU	375	100	568	150	SKIN			
TLV-ACGIH		184	50	368	100				
redicted no-effe	ct concentra	ation - PNE	C						
Normal value in	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							5,2	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				100	mg/l	
Normal value o	f STP microc	organisms					100	mg/l	
Normal value for			nent				4,56	mg/kg	
ealth - Derived r							,	3. 3	
	Effe	cts on consu	umers			Effects on wo	orkers		
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		temic	local	systemic	local	systemic	local	systemic
Oral					3,3		-,		-,
0.0					mg/kg bw/d				
Inhalation					43,9				369
					mg/m3				mg/m3
Skin					78				183
					mg/kg bw/d				mg/kg
									bw/d



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

		Rea	ction mass	of ethylbenz	ene and m-	xylene and p-xylen	e		
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ob	servations		
		mg/m3	ppm	mg/m3	ppm				
VLEP	ITA	221	50	442	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
Predicted no-effe	ct concentra	ation - PNEC	>						
Normal value ir	n fresh water						0,25	mg/l	
Normal value ir	n marine wate	er					0,25	mg/l	
Normal value for	or marine wat	er sediment					14,33	mg/kg	
Normal value for	or the terrestr	ial compartm	nent				2,41	mg/kg	

				PHOSPH		CID
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	1		2		
AGW	DEU	2		4 (C)		INHAL
MAK	DEU	2		4		INHAL
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
WEL	GBR	1		2		
TLV	GRC	1		3		
VLEP	ITA	1		2		
TGG	NLD	1		2		
NDS/NDSCh	POL	1		2		
VLE	PRT	1		2		
TLV	ROU	1		2		
MV	SVN	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		

@EPY 9.11.3 - SDS 1004.13



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

METHYL ETHYL KETONE									
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	600	203,4	900	305,1				
AGW	DEU	600	200	600	200	SKIN			
MAK	DEU	600	200	600	200	SKIN			
VLA	ESP	600	200	900	300				
VLEP	FRA	600	200	900	300	SKIN			
WEL	GBR	600	200	899	300	SKIN			
TLV	GRC	600	200	900	300				
VLEP	ITA	600	200	900	300				
TGG	NLD	590		500		SKIN			
NDS/NDSCh	POL	450		900		SKIN			
VLE	PRT	600	200	900	300				
MV	SVN	600	200	900	300	SKIN			
OEL	EU	600	200	900	300				
TLV-ACGIH		590	200	885	300				
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value ir	n fresh water						55,8	mg/l	
Normal value in	n marine wate	er					55,8	mg/l	
Normal value for	or fresh wate	r sediment					284,74	mg/kg	
Normal value o							709	mg/l	
Normal value for	or the food ch	nain (second	ary poisonin	g)			100	mg/kg	
Normal value for							22,5	mg/kg	
Health - Derived I	no-effect lev	el - DNEL /	DMEL						
		ects on consi	umers			Effects on w	orkers		
Route of expos			ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					31				
					mg/kg bw/d				
Inhalation					106				600
					mg/m3				mg/m3
Skin					412				1161
					mg/kg bw/d				mg/kg
									bw/d

Legend:

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

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

### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

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

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category 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

Properties	Value	Information
Appearance	liquid	
Colour	TYPICAL	
Odour	characteristic	
Odour threshold	Not available	
рН	Not available	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 150 °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	Not available	
Vapour density	Not available	
Relative density	1,15 kg/l	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not available	
Oxidising properties	Not available	
9.2. Other information		
	0.04.0/ 40.00	4
VOC (Directive 2004/42/EC) :	0,94 % - 10,82 g/li	
VOC (volatile carbon) :	0,63 % - 7,23 g/li	tre

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

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

#### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage. With the air it may slowly develop peroxides that explode with an increase in temperature.

#### 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.

#### PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. 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.

2-METHOXY-1-METHYLETHYL ACETATE



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

May react violently with: oxidising substances, strong acids, alkaline metals.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

1-METHOXY-2-PROPANOL

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

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane.May react dangerously with: alkalis,sodium borohydride.

## METHYL ETHYL KETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures 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. METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

## 10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

1-METHOXY-2-PROPANOL

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

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

## 10.6. Hazardous decomposition products

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane. PHOSPHORIC ACID

May develop: phosphoryl oxides.

### **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

2-METHOXY-1-METHYLETHYL ACETATE The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

XYLENE (MIXTURE OF ISOMERS) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

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

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

#### 2-METHOXY-1-METHYLETHYL ACETATE

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 (INCR, 2010).

#### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

#### 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

### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

## ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

> PHOSPHORIC ACID LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral) LD50 (Dermal)

ETHYLBENZENE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

1-METHOXY-2-PROPANOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

METHYL ETHYL KETONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

1530 mg/kg Rat 2740 mg/kg Rabbit > 0,85 mg/l/1h Rat

3523 mg/kg Rat 4350 mg/kg Rabbit 26 mg/l/4h Rat

8530 mg/kg Rat > 5000 mg/kg Rat

3500 mg/kg Rat 15354 mg/kg Rabbit 17,2 mg/l/4h Rat

5300 mg/kg Rat 13000 mg/kg Rabbit 54,6 mg/l/4h Rat

2737 mg/kg Rat 6480 mg/kg Rabbit 23,5 mg/l/8h Rat



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## SECTION 11. Toxicological information ... / >>

ALKYL (C12-14) GLYCIDYL ETHER LD50 (Dermal)

> 10000 mg/kg Rat

Reaction mass of ethylbenzene and m-xylene and p-xyleneLD50 (Oral)3523 mg/l RatLD50 (Dermal)12126 mg/kg RabbitLC50 (Inhalation)27,124 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: PINE OIL CRESYL GLYCIDYL ETHER

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

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

## **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 ... / >>

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

REACTION PRODUCT: BISPHENOL A-(EPICHLOR LC50 - for Fish	HYDRIN) 1,5 mg/l/96h Fish
ALKYL (C12-14) GLYCIDYL ETHER LC50 - for Fish	> 5000 mg/l/96h Rainbow trout
Reaction mass of ethylbenzene and m-xylene and p- LC50 - for Fish	xylene 2,6 mg/l/96h p-xilene
12.2. Persistence and degradability	
PHOSPHORIC ACID Solubility in water Degradability: information not available	> 850000 mg/l
XYLENE (MIXTURE OF ISOMERS) Solubility in water Degradability: information not available	100 - 1000 mg/l
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
1-METHOXY-2-PROPANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
REACTION PRODUCT: BISPHENOL A-(EPICHLOR Solubility in water NOT rapidly degradable	(HYDRIN) 0,1 - 100 mg/l
METHYL ETHYL KETONE Solubility in water Rapidly degradable	> 10000 mg/l
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
1-METHOXY-2-PROPANOL Partition coefficient: n-octanol/water	< 1
REACTION PRODUCT: BISPHENOL A-(EPICHLOR Partition coefficient: n-octanol/water BCF	HYDRIN) > 2,918 31
METHYL ETHYL KETONE Partition coefficient: n-octanol/water	0,3
12.4. Mobility in soil	



### SECTION 12. Ecological information ..../>>

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
REACTION PRODUCT: BISPHENOL A-(EPICH	LORHYDRIN)
Partition coefficient: soil/water	2.65

#### 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 greater 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.

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

ADR / RID, IMDG, IATA: 3082

ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity $\leq$ 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

#### 14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL
	A-(EPICHLORHYDRIN); Reaction product: Bisphenol-F- (epichlorohydrin); epoxy resin)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL
	A-(EPICHLORHYDRIN); Reaction product: Bisphenol-F- (epichlorohydrin); epoxy resin)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL
	A-(EPICHLORHYDRIN); Reaction product: Bisphenol-F- (epichlorohydrin); epoxy resin)

### 14.3. Transport hazard class(es)

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

IATA dangerous goods regulations.

#### 14.4. Packing group

ADR / RID, IMDG, IATA: III



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## 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 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	

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

Information not relevant

## **SECTION 15. Regulatory information**

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

 Seveso Category - Directive 2012/18/EC:
 E2

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

 Product

 Point
 3 - 40

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage greater 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:

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 been performed for the following contained substances METHYL ETHYL KETONE



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## **SECTION 16. Other information**

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Lig. 3	Flammable liquid, category 3
Muta. 2	Germ cell mutagenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
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
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H341	Suspected of causing genetic defects.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
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.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

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

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament



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### SECTION 16. Other information ... / >>

- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament3. 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 (EÚ) 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01/02/03/04/05/07/08/09/11/12/14/15. Changed TLVs in section 8.1 for following countries: CZE, POL, SVN, DEU, NLD,