<b>RESIMIX</b> ®		Resimi	x s.r.l.	Revision nr. 4
ADVANCED MATERIALS FOR THE BUILDING INDUSTRY				Dated 02/01/2017
	E52	7 - RESICOLO	R 421/2 Comp. A	Printed on 02/01/2017
	1 52		K 42 1/2 0011p. A	Page n. 1/20
		Safety dat	ta sheet	
SECTION 1. Identification	n of the subs	stance/mixture a	and of the company/un	dertaking.
1.1. Product identifier.				
Code:		F527		
Product name.		RESICOLOR 421/2 C	Comp. A	
1.2. Relevant identified uses of the Intended use. Form			sed against. h chemical resistance for coat	ings
		the development	Destaural	
Identified Uses Formulation based on epoxy resin	for coatings	Industrial.	Professional.	Consumer.
	-	¥	*	
<b>1.3. Details of the supplier of the s</b> Name. Full address. District and Country.	afety data sheet	Resimix s.r.l. via Pacinotti 12/14 36040 Brendola (VI) Italia		
		Tel. +39 (0) 444 400 7	773	
		Fax. +39 (0) 444 601		
e-mail address of the competent pers	son.			
responsible for the Safety Data Shee Product distribution by:	et.	laboratorio@resimix Resimix s.r.l.	com	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to.		Az. Osp. Univ. Foggi Az. Osp. "A. Cardare CAV Policlinico "Um CAV Policlinico "A. Az. Osp. "Careggi" U CAV Centro Naziona Osp. Niguarda Ca" C	co Bambino Gesù, Roma 06 68 ia, Foggia 0881-732326 elli", Napoli 081-7472870 oberto I", Roma 06-49978000 Gemelli", Roma 06-3054343 J.O. Tossicologia Medica, Firer le di Informazione Tossicologi Branda, Milano 02-66101029 a Papa Giovanni XXII, Bergamo	nze 055-7947819 ca, Pavia 0382-24444
SECTION 2. Hazards iden	ntification.			

### 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 EC Regulation 1907/2006 and subsequent amendments. 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:		
Eve 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,	H411	Toxic to aquatic life with long lasting effects.
category 2		



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### 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.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

P201	Obtain special instructions before use.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P501	Dispose of contents / container in accordance with local / regional / national / international.
Contains:	Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

2.3. Other hazards.

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

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

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

Contains:



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e full wording of hazard (H) phrases is given in sectio dentification.		Classification 1272/2008 (CLP).
NERT		
CAS	50 ≤ x < 100	
EC		
NDEX		
Formaldehyde, oligomeric reaction products with -chloro-2,3-epoxypropane and phenol CAS. 9003-36-5	20 ≤ x < 40	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2
EC. 500-006-8		H411, EUH205
NDEX		
Reg. no. 01-2119454392-40		
Reaction product: bisphenol-A-(epichlorhydrin); poxy resin (number average molecular weight ≤		
<b>00).</b> CAS. 25068-38-6	10 ≤ x < 30	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. 500-033-5		
NDEX. 603-074-00-8		
Reg. no. 01-2119456619-26		
Solvent naphtha (petroleum), light arom		
CAS. 64742-95-6	0,5 ≤ x < 1	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411
EC. 265-199-0		
NDEX		
Reg. no. 01-2119455851-35		
2-methoxy-1-methylethyl acetate		
CAS. 108-65-6	0,01 ≤ x < 0,5	Flam. Liq. 3 H226
EC. 203-603-9		
NDEX		
Reg. no. 01-2119475791-29		
2,6-dimethylheptan-4-one		
CAS. 108-83-8	0,01 ≤ x < 0,5	Flam. Liq. 3 H226, STOT SE
EC. 203-620-1		3 H335
NDEX. 606-005-00-X		
Reg. no. 01-2119474441-41		
2,6-di-tert-butyl-p-cresol		
CAS. 128-37-0	0,001 ≤ x < 0,1	Aquatic Acute 1 H400 M=1,
	0,001 <u>– X</u> • 0,1	Aquatic Chronic 1 H410 M=1
EC. 204-881-4		
NDEX		
Reg. no. 01-2119565113-46		

# SECTION 4. First aid measures.



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#### 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. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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. For symptoms and effects caused by the contained substances, see chap. 11.

### 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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.



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#### 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. If the product is flammable, use explosion-proof equipment. 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 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:

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AUS	Österreich		Grenzwerte				040		
BEL CHE	Belgique Suisse / Schv		AR du 11/3/						m
SHE	Suisse / Sch	weiz	Arbeitsplatz		tion aux pos	stes de trava	all 2014. / C	Grenzwerte a	m
DEU	Deutschland		MAK-und B		ste 2012				
DNK	Danmark			erdier per sto		erialer			
ESP	España			nites de expo			agentes o	uímicos en	
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FIN	Suomi		HTP-arvot 2	012. Haitalli			et - Sosiaa	li- ja	
			terveysminis	steriön julkai	suja 2012:5				
FRA	France			)9 du 10 ma			n° 102		
GBR	United Kingd	om		Workplace e					
EU	OEL EU			09/161/EU;	Directive 20	06/15/EC; [	Directive 20	004/37/EC;	
			Directive 20	00/39/EC.					
Formaldehy	yde, oligomeric rea	action produ	cts with 1-chlore	o-2,3-epoxypro	pane and phe	enol			
Predicted no-	effect concentration - F								
	in fresh water for fresh water sedime	ent			0,003 0,294		mg/l mg/ł	a	
Normal value	for marine water sedin	nent			0,029		mg/k	g	
	for water, intermittent of STP microorganism				0,025 10		mg/l		
	for the terrestrial comp				10 0,237		mg/l mg/ł	g	
Health - Dei	rived no-effect lev	el - DNEL / D Effects on	MEL			Effects on			
		consumers.				workers			
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				111B					
nhalation.				VND	bw/d 8,7 mg/m3			VND	29,39 mg/m3
					bw/d 8,7 mg/m3	0.0083	VND	VND VND	
				VND	bw/d	0,0083 mg/cm2	VND		
Skin.	roduct: bisphenol-	A-(epichlorh	ydrin); epoxy re	VND VND	bw/d 8,7 mg/m3 62,5 mg/kg bw/d	mg/cm2			104,15 mg/kg
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Inhalation.				32 mg/m3				150 mg/m3
Skin.								0
UNIII.				11 mg/kg/d				25 mg/kg/d
	- 4 - 4 -							
2-methoxy-1-methylethyl ac Threshold Limit Value.	etate							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	275	50	550	100			
Predicted no-effect concentration -	- PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water sedin Normal value for marine water sed Normal value of STP microorganis Normal value for the terrestrial con Health - Derived no-effect le	liment :ms npartment	A(= 1		0,635 0,064 3,29 0,329 100 0,29		mg/l mg/l mg/kg mg/kg mg/l mg/kg		
Health - Derived no-enectie	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
•		/ louio by clorino	ernenie leeur	systemic		systemic	ernenne redar	systemic
Oral. Inhalation.			33 mg/m3	36 mg/kg bw/d 33 mg/m3	550 mg/m3		33	275 mg/m3
Skin.				320 mg/kg				- 796 mg/kg
				bw/d				bw/d
2,6-dimethylheptan-4-one Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
МАК	AUS	290	50					
VLEP	BEL	147	25					
МАК	CHE	150	25					
VLA	ESP	148	25					
VLEP	FRA	250	25					
WEL	GBR	148	25					
Predicted no-effect concentration -	- PNEC.							
Normal value in fresh water				0,03		mg/l		
Normal value in marine water Normal value for fresh water sedin Normal value for marine water sed Normal value for water, intermitten Normal value of STP microorganis Normal value for the terrestrial com	liment ht release sms npartment			0,003 0,46 0,046 0,3 2,55 0,075		mg/l mg/kg mg/l mg/l mg/l		
Health - Derived no-effect le	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	7,14 mg/kg		Systemic		cystemic
Inhalation. Skin.	145 mg/m3	145 mg/m3	145 mg/m3 VND	bw/d 171 mg/m3 28,5 mg/kg bw/d	290 mg/m3	290 mg/m3	290 mg/m3 VND	479 mg/m3 80 mg/kg bw/d
2,6-di-tert-butyl-p-cresol								
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
	_ 00	mg/m3	ppm	mg/m3	ppm			
			rr		PP			

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МАК	AUS	10						
VLEP	BEL	2						
MAK	CHE	10				INHAL.		
AGW	DEU	10		40				
TLV	DNK	10		20				
HTP	FIN	10		20				
VLEP	FRA	10						
WEL	GBR	10						
Predicted no-effect concentra	tion - PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for marine wate Normal value for water, intern Normal value of STP microory Normal value for the food cha Normal value for the terrestria	sediment r sediment nittent release ganisms in (secondary poisor Il compartment	0,		0,000199 0,0002 0,0996 0,00996 0,00199 0,17 8,33 0,04769		mg/l mg/l mg/k mg/k mg/l mg/k mg/k	g g	
Health - Derived no-effe	ct level - DNEL / I Effects on	DMEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				0,25 mg/kg bw/d 0,86 mg/m3				3,5 mg/m3
Skin.				0,25 mg/kg bw/d				0,5 mg/kg bw/d

(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. 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 Directive 89/686/EEC 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 B filter

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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.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Material of gloves for long term application (BTT> 480 min): ethyl vinyl alcohol laminate (EVAL), butyl rubber.

# **SECTION 9.** Physical and chemical properties.

### 9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower explosive limit.	viscous liquid as showed in color folder mild Not available. Not available. Not available. Not available. > 60 °C. Not available. Not available.
Vapour pressure. Vapour density	Not available.
Relative density.	1,60
Solubility Partition coefficient: n-octanol/water	insoluble in water Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	45000 - 55000 cP (Brookfield, 20°C)
Explosive properties	Not available.
Oxidising properties	Not available.

### 9.2. Other information.

VOC (Directive 2010/75/EC) :	0,06 %	-	0,94	g/litre.
VOC (volatile carbon) :	0			

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



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10.1. Reactivity.

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

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Stable in normal conditions of use and storage.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700). No data available about the reactivity on the product itself.

Solvent naphtha (petroleum), light arom Stable in normal conditions of use and storage.

2-methoxy-1-methylethyl acetate Stable in normal conditions of use and storage.

2,6-dimethylheptan-4-one No data available.

2,6-di-tert-butyl-p-cresol Stable in normal conditions of use and storage.

10.2. Chemical stability.

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

Formaldehyde,	oligomeric reaction	products with	1-chloro-2,3-epoxy	propane and phenol
Stable in norma	al conditions of use a	and storage.		

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Stable in normal conditions of use and storage.

Solvent naphtha (petroleum), light arom Stable in normal conditions of use and storage.

2-methoxy-1-methylethyl acetate Stable in normal conditions of use and storage.

2,6-dimethylheptan-4-one Stable in normal conditions of use and storage.

2,6-di-tert-butyl-p-cresol 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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol



The reaction with aminic components is not reversible.

The reaction with aminic components is not reversible .

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Solvent naphtha (petroleum), light arom Stable in normal conditions of use and storage. 2-methoxy-1-methylethyl acetate Stable in normal conditions of use and storage. 2,6-dimethylheptan-4-one Stable in normal conditions of use and storage. 2,6-di-tert-butyl-p-cresol Decomposes on contact with: heat. 10.4. Conditions to avoid. None in particular. However the usual precautions used for chemical products should be respected. Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Avoid exposure to: high temperatures. Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Avoid exposure to: high temperatures. The thermal decomposition develops gases which can cause pressure in closed systems. Solvent naphtha (petroleum), light arom Avoid exposure to: heat, naked flames. 2-methoxy-1-methylethyl acetate

By weight over 0,5 kg to add an aminic base substance drives to a strong exothermic reaction.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). By weight over 0,5 kg to add an aminic base substance drives to a strong exothermic reaction.

Avoid exposure to: high temperatures,electrostatic discharges.

2,6-dimethylheptan-4-one Avoid exposure to: high temperatures.

2,6-di-tert-butyl-p-cresol Avoid exposure to: heat,sources of heat. Avoid contact with: strong acids.

10.5. Incompatible materials.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Avoid contact with: oxidising agents,acids,bases.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Avoid contact with: oxidising agents,acids,bases.Avoid unintended contact with amines.



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Solvent naphtha (petroleum), light arom Avoid contact with: acids,strong oxidising agents.

2-methoxy-1-methylethyl acetate Avoid contact with: oxidising agents,strong acids.

2,6-dimethylheptan-4-one Avoid contact with: strong acids,strong oxidising agents.

2,6-di-tert-butyl-p-cresol Avoid contact with: strong acids,oxidising agents,alkalis.

10.6. Hazardous decomposition products.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol The thermal decomposition develops: carbon monoxide, water, phenols, phenolic derivatives.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). The thermal decomposition develops: carbon monoxide, water, phenols, phenolic derivatives. An uncontrolled exothermic reaction build up phenolic derivatives , carbon monoxide and water.

Solvent naphtha (petroleum), light arom None dangerous decomposition products at normal use and storage conditions.

2-methoxy-1-methylethyl acetate None dangerous decomposition products at normal use and storage conditions.

2,6-dimethylheptan-4-one None dangerous decomposition products at normal use and storage conditions.

2,6-di-tert-butyl-p-cresol When heated to decomposition releases: toxic fumes,flammable gases.

## **SECTION 11. Toxicological information.**

11.1. Information on toxicological effects.

### ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:Not classified (no significant component). LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component). LD50 (Oral) of the mixture:Not classified (no significant component).

LD50 (Dermal) of the mixture:Not classified (no significant component).

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). LD50 (Oral).> 2000 mg/kg female rat LD50 (Dermal).> 2000 mg/kg male/female rat

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol LD50 (Oral).> 5000 mg/kg male/female rat LD50 (Dermal).> 2000 mg/kg male/female rat

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2,6-dimethylheptan-4-one LD50 (Oral).> 2000 mg/kg male/female rat LD50 (Dermal).> 2000 mg/kg male/female rat LC50 (Inhalation).> 14,5 mg/l/4h rat Solvent naphtha (petroleum), light arom LD50 (Oral).> 3,16 mg/kg male/female rabbit LD50 (Dermal).> 2000 mg/kg male/female rabbit 2,6-di-tert-butyl-p-cresol LD50 (Oral) > 6000 mg/kg male/female rat LD50 (Dermal).> 2000 mg/kg male/female rat 2-methoxy-1-methylethyl acetate LD50 (Oral).8532 mg/kg female rat LD50 (Dermal).> 2000 mg/kg male rat SKIN CORROSION / IRRITATION. Causes skin irritation. SERIOUS EYE DAMAGE / IRRITATION. Causes serious eye irritation. RESPIRATORY ÓR SKIN SENSITISATION. Sensitising for the skin. GERM CELL MUTAGENICITY. Does not meet the classification criteria for this hazard class. CARCINOGENICITY. Does not meet the classification criteria for this hazard class. REPRODUCTIVE TOXICITY. Does not meet the classification criteria for this hazard class. STOT - SINGLE EXPOSURE. Does not meet the classification criteria for this hazard class. STOT - REPEATED EXPOSURE. Does not meet the classification criteria for this hazard class. ASPIRATION HAZARD. Does not meet the classification criteria for this hazard class. **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.

Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). LC50 - for Fish.	3,6 mg/l/96h Salmo gairdneri
EC50 - for Crustacea.	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants.	9,4 mg/l/72h Scenedesmus capricornutum
Chronic NOEC for Crustacea.	0,3 mg/l Daphnia magna
Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol	0.55
LC50 - for Fish.	0,55 mg/l/96h Leuciscus idus
EC50 - for Crustacea.	1,6 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic	1,8 mg/l/72h Pseudokirchnerella subcapitata



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Plants. Chronic NOEC for Crustacea.	0,3 mg/l Daphnia magna	
2,6-dimethylheptan-4-one		
LC50 - for Fish.	30 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea.	37,2 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants.	46,9 mg/l/72h Pseudokirchnerella subcapitata	
Solvent naphtha (petroleum), light arom		
EC50 - for Crustacea.	3,2 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants.	2,6 mg/l/72h Pseudokirchneriella subcapitata	
2,6-di-tert-butyl-p-cresol		
LC50 - for Fish.	> 0,57 mg/l/96h Danio rerio	
EC50 - for Crustacea.	0,48 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants.	> 0,4 mg/l/72h Desmodesmus subspicatus	
Chronic NOEC for Fish.	0,053 mg/l Oryzias latipes	
Chronic NOEC for Crustacea.	0,023 mg/l Daphnia magna	
2-methoxy-1-methylethyl		
acetate LC50 - for Fish.	100 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea.	> 500 mg/l/48h Daphnia magna	
Chronic NOEC for Fish.	47,5 mg/l Oryzias latipes	
Chronic NOEC for Crustacea.	> 100 mg/l	
12.2. Persistence and degradability		
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Solubility in water.	slightly soluble > 5,4 - < 8,4 mg/l	
NOT rapidly biodegradable.	5 % 28 d	
Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and		
phenol Solubility in water.	slightly soluble 20 mg/l	
NOT rapidly biodegradable.	0 % 28 d	
2,6-dimethylheptan-4-one		
Rapidly biodegradable.	88 % 20 d	



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Rapidly biodegradable.	
2,6-di-tert-butyl-p-cresol	
Solubility in water.	slightly soluble 0,76 mg/l
NOT rapidly biodegradable.	4,5 % 28 d
2-methoxy-1-methylethyl	
acetate Solubility in water.	very soluble 198000 mg/l
Rapidly biodegradable.	83 % 28 d
	00 /0 20 0
12.3. Bioaccumulative potential.	
Reaction product: bisphenol-	
A-(epichlorhydrin); epoxy resin (number average	
molecular weight ≤ 700).	
BCF.	31
Formaldehyde, oligomeric	
reaction products with 1- chloro-2,3-epoxypropane and	
phenol	
BCF.	150 l/kg
2,6-dimethylheptan-4-one	
BCF.	130 l/kg
12.4. Mobility in soil.	
Reaction product: bisphenol-	
A-(epichlorhydrin); epoxy	
resin (number average molecular weight ≤ 700).	
Partition coefficient:	2,65
soil/water.	
Formaldehyde, oligomeric reaction products with 1-	
chloro-2,3-epoxypropane and	
phenol	0.05
Partition coefficient: soil/water.	3,65
2,6-dimethylheptan-4-one	0.07 T 0500
Partition coefficient: soil/water.	2,07 T = 25°C



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



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## regulations.

### 14.2. UN proper shipping name.

ADR / RID:	ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F
IMDG:	epoxy resin) ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F
ΙΑΤΑ:	epoxy resin) ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F epoxy resin)

### 14.3. Transport hazard class(es).

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

### 14.4. Packing group.

ADR / RID, IMDG, Ш IATA:

### 14.5. Environmental hazards.

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



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# 14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 90 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	– Maximum quantity: 450 I	Packaging instructions: 964
	Pass.:	– Maximum quantity: 450 I	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	504

### 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

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 authorisarion (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.



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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.

#### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

### **SECTION 16. Other information.**

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

Flam. Liq. 3	Flammable liquid, category 3
Asp. Tox. 1	Aspiration hazard, category 1
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 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
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
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.
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.
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
- I C50: Lethal Concentration 50%
- LC50: Lethal Concentration 50%



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- 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 (EU) 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
- 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
- ECHA website

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.

Changes to previous review: all sections revised according to Regulation 830/2015/EC.