

REPOSOL A Component

Revision n. 1.0

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	the substance/preparation and	d of the company/undertaking
1.1 Product identifier		
Name	REPOSOL Compor	ient A
1.2. Identified relevant uses of	of the substance or mixture an	d non-recommended uses
Description/Use	Epoxy primer	
UFI	KWYS-G58M-K243-	EJYU
1.3. Supplier information of the	he safety data sheet	
Company Name		VOLTECO Spa
Address		Via delle Industrie, 47
District and Country		31050 Ponzano Veneto (TV) - IT
Telephone		+39 0422 9663
Fax		+39 0422 966401
e-mail address of the person in cha	arge of the safety data sheet	volteco@volteco.it
1.4. Emergency telephone nu	mber	
For urgent enquiries, please contac	et +39 0422 9663	
SECTION 2. Hazards identific	cation	
2.1 Classification of the subs	tance or mixture	
Product definition	Mixture	
		s stipulated in EC Regulation No. 1272/2008 (CLP) as amended.
•		the provisions of EC Regulation No. 1907/2006 and subsequent
	add encor that complete the	
amenuments.		
amendments. Any additional information conce	erning the risks for health and/or t	he environment are given in Sections 11 and 12 of this data sheet.
Any additional information conce	-	he environment are given in Sections 11 and 12 of this data sheet.
Any additional information conce 2.1.1 EC Regulation No. 1272	/2008 as amended	he environment are given in Sections 11 and 12 of this data sheet.
Any additional information conce 2.1.1 EC Regulation No. 1272 Classification and hazard sta	/2008 as amended	he environment are given in Sections 11 and 12 of this data sheet. Causes serious eye irritation.
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Any additional information conce 2.1.1 EC Regulation No. 1272 Classification and hazard sta Eye Irrit. 2 Skin Irrit. 2	/2008 as amended tements H319	Causes serious eye irritation.
Any additional information conce 2.1.1 EC Regulation No. 1272, Classification and hazard sta Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2	/2008 as amended tements H319 H315	Causes serious eye irritation. Causes skin irritation.
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Any additional information conce 2.1.1 EC Regulation No. 1272 Classification and hazard sta Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2 2.2 Label elements Hazard labelling pursuant to EC Hazard pictograms	/2008 as amended tements H319 H315 H317 H411	Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic organisms with long-term effects as amended.
Any additional information conce 2.1.1 EC Regulation No. 1272/ Classification and hazard state Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2 2.2 Label elements Hazard labelling pursuant to EC Hazard pictograms Warnings	/2008 as amended tements H319 H315 H317 H411 Regulation No. 1272/2008 (CLP)	Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic organisms with long-term effects as amended.
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Any additional information conce 2.1.1 EC Regulation No. 1272 Classification and hazard sta Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2 2.2 Label elements Hazard labelling pursuant to EC	/2008 as amended tements H319 H315 H317 H411 Regulation No. 1272/2008 (CLP) Irritant - Hazardous for Causes serious eye in Causes skin irritation May cause an allergin Toxic to aquatic orga Contains epoxy cons Vash hands before to Do not release into th Wear protective glove IN CASE OF SKIN C	Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic organisms with long-term effects as amended. or the environment rritation. c skin reaction. nisms with long-term effects tituents. May cause an allergic reaction.



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Reaction product: bisphenol F-epichlorohydrin and epoxy resin (molecular weight < = 700) oxirane, mono C12-14 alkyloxy methyl derivatives.

Special provisions according to Annex XVII of None the REACH Regulation and subsequent amendments

2.3 Other hazards

vPvB substances: none - PBT substances: none

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture

Mixture	Epoxy res	in		
Name Hazardous component	CAS	EC	%	Classification
Reaction product bisphenol-A- epichlorohydrin and epoxy resin (molecular weight <=700) REACH Reg. n.: 01-2119456619-26	25068-38-6	500-033-5	50 < = C < 75	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Reaction product bisphenol-F- epichlorohydrin and epoxy resin (molecular weight <=700) REACH Reg. n.: 01-2119454392-40	9003-36-5	500-006-8	25 < = C < 35	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chron. 2,H411
Oxirane C12 - C14 alkyl glycidyl ether REACH Reg. No.: 01-21194852289-22	68609-97-2	271-846-8	10 < = C < 20	Skin Irrit. 2, H315 Skin Sens. 1, H317

Declaration of the ingredients in accordance with EC Regulation No. 1272/2008 (CLP)

SECTION 4. First aid measures

4.1 Description of the first aid measures

4.1 Description of the first aid measures	
Contact with skin	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Seek medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Contact with eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Verify whether contact lenses are worn and if so, remove them. Continue to rinse for at least 10 minutes. Seek medical attention.
Swallowing	Rinse mouth with water. Remove dentures, if present. Move the victim to fresh air and keep at rest in a comfortable position for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek medical attention if the adverse health effects persist or are severe. Never administer anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical attention immediately. Make sure there is good air circulation. Loosen tight-fitting clothing such as a collar, tie, belt or waistband.
Inhalation	Move the victim to fresh air and keep at rest in a comfortable position for breathing. In case of shortness of breath, irregular breathing or respiratory arrest, have trained personnel apply artificial respiration or administer oxygen. Performing mouth-to-mouth resuscitation can be dangerous for the person providing assistance. Seek medical attention if the adverse health effects persist or are severe. If unconscious, place in the recovery position and seek medical attention immediately. Make sure there is good air circulation. Loosen tight-fitting clothing such as a collar, tie, belt or waistband.
4.2 Main symptoms and effects, both acu Potentially acute effects on health	ite and delayed
Contact with skin	Causes skin irritation. May cause a skin reaction.
Contact with eyes	Causes serious eye irritation.



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Swallowing	Irritant for the mouth, throat and stomach.
Inhalation	No known significant effects or critical hazards.
Signs/Symptoms of overexposure	
Contact with skin	Adverse symptoms may include the following: irritation and reddening.
Contact with eyes	Adverse symptoms can include the following: irritation or pain, tearing, reddening.
Swallowing	No specific data.
Inhalation	No specific data.
There are no specific treatments.	aled, contact a poison control centre immediately.
SECTION 5. Fire-fighting measures	
5.1 Extinguishing agents	
Suitable extinguishing agents	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing agents	None known.
5.2 Risks from combustion	
Hazards arising from the substance or mixture	In the event of a fire or overheating, the pressure increases and the container may burst. This material is toxic to aquatic life with long-term effects. The extinguishing water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	The decomposition products can include the following materials: carbon dioxide, carbon monoxide, halogenated compounds.
5.3 Recommendations for those in charg	e of putting out fires
Special protective actions	In case of fire, promptly isolate the area by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training.
Protective clothing	Emergency teams must wear protective equipment and a positive pressure full face-piece self- contained breathing apparatus (SCBA). The clothing for staff appointed to extinguishing fires (including helmets, protective boots and gloves), compliant with European standard EN 469, ensures a basic protection level for chemical accidents.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For whoever is not working on it directly	No action shall be taken involving any personal risk or without suitable training. Evacuate the surrounding areas. Prevent unauthorised and unprotected personnel from entering. Do not touch or walk on spilled material. Do not touch or walk on spilled material. Avoid inhaling vapours or mists. Provide adequate ventilation. Wear an appropriate respirator if ventilation is inadequate. Wear due personal protective equipment.
For whoever works on it directly	If any spillage needs to be managed with the use of special clothing, take into account all of the information of Section 8 relative to suitable and unsuitable materials. Also see the information contained in "For non emergency service operators".

6.2 Environmental precautions

Prevent the spilled material from dispersing, flowing into or coming in contact with the soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (drains, waterways, soil or air). Water polluting material.

May be harmful to the environment if released in large quantities.

Prevent the spilled material from dispersing, flowing into or coming in contact with the soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (drains, waterways, soil or air).

Water polluting material.

May be harmful to the environment if released in large quantities.

Collect the spilled material.

6.3 Methods and materials for containment and cleaning up

Small spillStop the leak if there is no risk. Move containers away from spill area. Dilute with water and absorb if
water-soluble. Alternatively, or if not water-soluble, absorb with dry inert material and dispose of in
appropriate waste container. Dispose of via an authorised waste disposal contractor.



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Prevent the leak from reaching drains, waterways, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, such as sand, soil, vermiculite or diatomaceous earth and place in a container for disposal according to regulations in force. Dispose of via an authorised waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

Refer to Chapter 7 for information on safe handling. Refer to Chapter 8 for information on personal protective equipment. Refer to Chapter 13 for information on disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Protective measuresWear appropriate protective equipment (refer to Section 8). Persons with a history of skin sensitisation
must not be involved in any process in which this product must be used. Avoid contact with eyes, skin
or clothing. Do not swallow. Avoid inhaling vapours or mists. Do not release into the environment. Store
in the original container or an approved alternative made from a compatible material, kept tightly
closed when not in use. Empty containers retain product residue and can be dangerous. Do not reuse
the container.Warnings pertaining to general work hygiene
protocolsIt is forbidden to eat, drink or smoke in areas where the material is handled, stored or processed.
People who use the product must wash their hands and face before eating, drinking and smoking.
Take off the contaminated clothing and safety devices.

7.2 Conditions for safe storage, including any incompatibility

Store in accordance with applicable regulations.

Store in the original container away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

Keep the container closed tightly and sealed until it is to be used.

Open containers must be carefully resealed and kept upright to prevent the product from leaking.

Do not store in unlabelled containers.

Set up appropriate containment systems to avoid environmental contamination.

7.3 Specific end uses

No additional information for specific end uses (see Section 1.2).

SECTION 8. Exposure control/personal protection

8.1 Control parameters

DNEL exposure limit values: Not available.

PNEC exposure limit values: Not available.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective devices. Refer to the monitoring standards, such as the following, for example: European standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) - European standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical agents) - European standard EN 482 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) - European standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents). It will also be necessary to refer to the national documents offering orientation on the methods used to determine hazardous substances.

Name of product/ingredient	Туре	Exposure level	Effects on health	Effects	Value	Population
Reaction product: bis phenol-A- epichlorohydrin and epoxy resin (average molecular weight <=700)		Dermal	Short term	Systemic	8.3 mg/kg bw/d	Workers
	DNEL	Inhalation	Short term	Systemic	12.3 mg/m ³	Workers
	DNEL	Dermal	Long term	Systemic	8.3 mg/kg bw/d	Workers
	DNEL	Inhalation	Long term	Systemic	12.3 mg/m ³	Workers
	DNEL	Dermal	Short term	Systemic	3.6 mg/kg bw/d	General



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Name of product/ingredient	Туре		Exposure level	Effects on health	Effe	ects	Value		Population
	DNEL		Inhalation	Short term	Sys	stemic	0.75 mg/m ³		General
	DNEL		Oral	Short term	Sys	stemic	0.75 mg/kg b	w/d	General
	DNEL		Dermal	Long term	Sys	stemic	3.6 mg/kg bv	v/d	General
	DNEL		Inhalation	Long term	Sys	stemic	0.75 mg/m ³		General
	DNEL		Oral	Long term	Sys	stemic	0.75 mg/kg b	w/d	General
Reaction product: bis phenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)			Dermal	Short term	Loc	al	8.3 μg/cm²		Workers
	DNEL		Dermal	Long term	Sys	stemic	104.15 mg/kg	g bw/d	Workers
	DNEL		Inhalation	Long term	Sys	stemic	29.39 mg/m ³		Workers
	DNEL		Dermal	Long term	Sys	stemic	62.5 mg/kg b	w/d	General
	DNEL		Inhalation	Long term	Sys	stemic	8.7 mg/m ³		General
	DNEL		Oral	Long term	Sys	temic	6.25 mg/kg b	w/d	General
DNEL/DMEL summa	ary		Not availa	ble.					
Name of product/ing	gredient	Туре		Environmental detail		Value		Metho	d detail
Reaction product: bis epichlorohydrin and e resin (average molec- weight <=700)	ероху	PNEC		Fresh water		3 μg/l		-	
		PNEC		Marine		0.3 μg/l		-	
		PNEC		Wastewater treatment pl	ant.	10 mg/l		-	
		PNEC		Running water sediment		0.5 mg/kg dwt		-	
		PNEC		Sediments in salt water		0.5 mg/kg dwt		-	
		PNEC		Sediment		0.05 mg/kg dwt		-	
		PNEC		Intermittent release		0.013 mg/l		-	
Reaction product: bis epichlorohydrin and e resin (average molec weight <=700)	ероху	PNEC		Fresh water		0.003 mg/l		-	
		PNEC		Marine		0.0003 mg/l		-	
		PNEC		Wastewater treatment pl	ant.	10 mg/l		-	
		PNEC		Running water sediment		0.294 mg/kg dw		-	
		PNEC		Sediments in salt water		0.0294 mg/kg d		-	
		PNEC		Soil		0.237 mg/kg dw		-	
		PNEC		Intermittent release		0.0254 mg/l		-	
PNEC summary			Not availa	ble.		-			
,									

Derived No Effect Level (DNEL) and Predicted No Effect Concentration (PNEC)

Explanatory note

REACH requires manufacturers and importers to determine and indicate Derived No-Effect Levels (DNELs) and the Predicted No Effect Concentrations (PNECs) for environmental exposure.

DNEL and PNEC are determined by the person who makes the recording without an official consultation, and are not intended to be used directly to set the occupational exposure limits or generally for the population.

They are primarily used as input values when completing the quantitative risk assessment models (such as the ECETOC-TRA model). Due to differences in the contact methodology, the DNEL will tend to be lower (sometimes much lower) than other OEL on a health basis for chemicals.

mixture, it is not freely available during use.

8.2 Exposure controls

Suitable technical controls

Does not require any special ventilation. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, implement the process in containment conditions, use local ventilation exhaust or other control devices to keep worker exposure below any recommended or legally-imposed limits.



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Personal protective measures	
Hygiene measures	Wash your hands, arms and face thoroughly after handling chemical products and before eating, smoking, using the bathroom and at the end of the work shift. Appropriate techniques must be used to remove potentially contaminated clothing. Contaminated work clothing should not be taken out of the workplace. Wash contaminated clothing before reuse. Make sure that the emergency eyewash areas and shower are close to the place where the work is carried out.
Eyes/face protection	Safety goggles, compliant with the approved standards, must be used when this results necessary following the risk assessment in order to prevent exposure to liquid splashes, gases or dust. If contact is possible, use the following protective measures, unless the assessment indicates the need for a higher level of protection: chemical spray-resistant goggles.
Skin protection	
Hand protection	Chemical-resistant and waterproof gloves that conform to the approved standards must always be worn when handling chemical products if this results as necessary following the risk assessment. Considering the parameters specified by the glove manufacturer, during use check that the gloves maintain their protective properties unchanged. Note that the permeation time for any material that the glove is made of can vary depending on the glove manufacturer. With mixtures, composed of several substances, it is not possible to specifically estimate the glove protection time.
Body protective equipment	Personal protective equipment for the body must be chosen based on the expected risks linked to the task and approved by qualified staff before its use for the manipulation of this product.
Other skin protection devices	Choose suitable footwear and any additional skin protection measures based on the activity being carried out and the inherent risks. These choices must be approved by a specialist before handling this product.
Respiratory protection	Use a personalised air-purifying respirator or one with an air intake system that complies with the approved standards if this results as necessary following the risk assessment. The respirator must be selected based on known or expected exposure levels, the hazards of the product and the safe operation limits of the selected respirator.
Environmental exposure controls	Emissions from ventilation equipment or work processes must be controlled to make sure they comply with the environmental protection requirements set forth by law. In some cases it will be necessary to wash the fumes, add filters or make technical changes to the process equipment to reduce the emissions to acceptable levels.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Description	Values
Physical state	Liquid
Colour	Red-brown
Odour	Not available.
Olfactory threshold	Not available.
pН	Not available.
Melting or freezing point	Not available.
Initial boiling point	Not available.
Initial boiling range	Not available.
Flash point	150 °C
Evaporation rate	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosivity limit	Not available.
Upper explosivity limit	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density	1.120 kg/m³ (ASTM D 4052)
Solubility	Not available.
Solubility in water	Not available.
Partition coefficient n-octanol/water	Not available.
Auto-ignition temperature	400°C (ASTM D 1929)



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Description

Decomposition temperature Viscosity Values Not available. Dynamic 0.7 - 1.1 Pas 25°C Kinematic: Not available Not available.

Not available.

9.2 Other information No information.

Explosive properties

Oxidising properties

SECTION 10. Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions or instability may occur under certain conditions of storage or use.

10.4 Conditions to be avoided

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

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should be generated.

SECTION 11. Toxicological information

11.1 Information on toxicological effects <u>Acute toxicity:</u>

Acute toxicity.					
Name of product/ingredient	Result		Species	Dose	Exposure
Reaction product: bisphenol-A- epichlorohydrin and epoxy resin (average molecular weight <=700)	-LD50 Oral		Rat	11.400 mg/kg	-
	LD50 Cutaneous		Rat	2000 mg/kg	-
Observations - Oral		It is devoid body weig	•	dies carried out on the mouse a	and rat, LD50> 2000 mg/kg in
Observations - Inhalation			very low vapour pressure (sati gnificant studies on the effects	urated atmosphere = 0.008 ppb of acute inhalation.), it has not been possible to
Observations - Skin		2000 mg/l in several	۶d.	OECD Standard No. 402 the sk arried out on a rabbit, LD50 was as 23 g/kg.	
Name of product/ingredient	Result		Species	Dose	Exposure
Reaction product: bisphenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)	LD50 Oral		Rat	> 2.000 mg/kg	-
	LD50 Cutaneous		Rabbit	> 2.000 mg/kg	-
Observations - Oral		The mean weight.	acute oral lethal dose (LD50) i	n rats, Fischer 344 strain, is gre	eater than 2000 mg/kg of body
Observations - Inhalation		acute toxic		CH regulation, it is not necessal nhalation, since there are studie	
Name of product/ingredient	Result		Species	Dose	Exposure
Reaction product: oxirane, mono[(C12-14-alchilossi)metil] derivatives	LD50 Oral		Rat	17.100 mg/kg	-



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Name of product/ingree	dient Result	Species	Dose	E	xposure			
Observations - Oral		Independent studies conducted on the basis of standard methods have shown that the LD50 value per female rat is > 2.0 g/kg and the LD50 value per male rat is 26.8 g/kg.						
Observations - Inhalation	on	No case of mortality was observed in rats exposed for 7 hours to the saturated value (150 mg/m ³).						
Conclusion/Summary	Conclusion/Summary		Not available.					
Acute toxicity estima Not available. Irritation/Corrosion	<u>tions</u>							
Name of product/ingredient	Result	Species	Points	Exposure	Observations			
Reaction product: bisphe nol-A-epichlorohydrin and epoxy resin (average molecular weight <=700)	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1,5 - 2	-	-			
	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1,0 - 1,5	-	-			
	Eyes - 405 Acute Eye Irritation/Corrosion	Rabbit	0	-	-			
	Eyes - Reddening of the conjunctival membranes	Rabbit	0,7	-	-			
	Skin - Moderately irritating	Rabbit	-	24 h	-			
	Skin - Highly irritating	Rabbit	-	24 h	-			
	Eyes - Slightly irritating	Rabbit	-	-	-			
Name of product/ingredient	Result	Species	Points	Exposure	Observations			
Reaction product: bisphe nol-F-epichlorohydrin and epoxy resin (average molecular weight <=700)	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	0,7	4 h	72 h			
. ,	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 h	4 - 504 h			
	Eyes - Corneal opacity 405 Acute Eye Irritation/Corrosion	Rabbit	0	-	1 - 168 h			
	Eyes - Lesion of the iris 405 Acute Eye Irritation/Corrosion	Rabbit	0	-	1 - 168 h			
	Eyes - Reddening of the conjunctival membranes 405 Acute Eye Irritation/Corrosion	Rabbit	0	-	1 - 168 h			
	Eyes - Oedema of the conjunctival membranes 405 Acute Eye Irritation/Corrosion	Rabbit	0	-	1 - 168 h			
	Skin - Slightly irritating	Rabbit	-	24 h	-			
Name of product/ingredient	Result	Species	Points	Exposure	Observations			
Reaction product: oxirane, mono[(C12-14- alchilossi)metil] derivatives	Skin - Primary skin irritation index (PDII) OTS 798.4470 Acute Dermal Irritation/Corrosion	Rabbit	4.1	24 h	72 h			
	Skin - Primary skin irritation index (PDII)	Rabbit	5.75	24 h	72 h			



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Name of	Result		Species	Points	Exposure	Observations
product/ingredient	nooun		opolico		Expoone	e pool fullone
	404 Acute D Irritation/Cor					
	Eyes - Corne 405 Acute E Irritation/Cor	ye	Rabbit	2	-	1 - 24 h
	Skin - Moder irritating	rately	Rabbit	-	24 h	-
Conclusion/Summar	у					
Skin		Not available.				
Eyes			Not available.			
Respiratory tract			Not available.			
Sensitisation		_				
Name of product/ingre		Exposure	level	Species	Result	
Reaction product: bisphe epichlorohydrin and epo (average molecular weig	xy resin	Skin		-	-	
Observations			that BADGE is a moderal according to the OECD S test animals at a stimulus sensitizer in the condition	use LLNA study the estim te skin sensitiser in this te Standard No. 406, BADGE s dose with 50% concentra as of this study. BADGE te carried out according to t	st system. In a guinea-pig resulted in a positive skir ation. Therefore, BADGE sted positive for skin sens	maximization study n reaction in 100% of the is an "extreme" skin sitization even in a Buehler
Name of product/ingre	edient	Exposure	level	Species	Result	
Reaction product: bisphe epichlorohydrin and epo. (average molecular weig	xy resin	Skin		-	-	
Observations			BPFDGE. 0.4 ml of the su a week for three weeks. <i>J</i> additional animals. The s 0.4 ml of liquid in liquid e epoxy resin BPFDGE led	A positive control of the lic timulation phase began to poxy resin BPFDGE. The I to positive reactions in 4 tions. In the conditions of t	topically administered to t juid epoxy resin BPFDGE vo weeks after the additio negative control had 0 po out of 10 guinea pigs and	ten male guinea pigs once was used on ten n of 5 animals exposed to sitive reactions, the liquid the positive control led to
Name of product/ingre	edient	Exposure	level	Species	Result	
Reaction product: oxiran mono[(C12-14-alchilossi derivatives		Skin			-	
Observations			the American EPA, positi	sing the Buehler method c ive skin reactions were ob sation test on guinea pig c	served in 20/20 guinea pi	gs. An extreme sensitiser
Conclusion/Summar	у					
Skin			Not available.			
Respiratory tract			Not available.			
Mutagenicity						
Name of product/ingre	edient	Test		Experiment	Result	
Reaction product: bisphe epichlorohydrin and epo. (average molecular weig	xy resin	-		-	-	
Observations			Ames/Salmonella TA153 metabolic activation. Indu mutation and chromosom Syrian hamster BHK cells evidence was induced in high dose level of 10 g/kg	g and in a micronucleus te	the mutagenic activity wa use lymphoma L5178Y ce mster V7 cells9. Induced owth in soft agar. No chro e carried out in a dominan st carried out on mice up	s greater without S9 liver ells. Induced gene cell transformation in mosomal damage t lethal test on mice up to a

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		a cytogenetic test c Did not induce an ir	3000 mg/kg. Did not induce an of bone marrow cells of Chines ncrease of DNA strand breaks measured by alkaline elution.	e hamster in an oral h	igh dose of up to 3300 mg/kg.
Name of product/ingredient	Test		Experiment	Resu	lt
Reaction product: bisphenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)	-		-	-	
Observations		chromosome aberr according to testing induced a significal supporting the other potential of bispher BPLs, including tes evidence of genoto	dyl ether induced a genic muta ations in human lymphocytes i g rules. Also, the structurally ar nt increase in the frequency of er conclusions. Accordingly, BF nol F diglycidyl ether was asse sting on mice micronucleus, UE xicity was found. Also the resu BPFDGE. In conclusion, bispl	n several independen nalogous bisphenol A mutations in L5178Y PFDGE is genotoxic ir ssed in multiple tests DS in vivo/in vitro and Its of other in vivo ger	t BPL studies conducted diglycidyl ether (BPADGE) mice lymphoma cella in cultur o vitro. When the genotoxicity in vivo in compliance with the MutaMouse tests on rats, no notoxicity tests support these
Name of product/ingredient	Test		Experiment	Resu	lt
Reaction product: oxirane, mono[(C12-14-alchilossi)metil] derivatives	-		-	-	
Observations		strain Salmonella T test on the ovary ce 476 up to cytotoxic sample on the lymp micronucleus induc No. 474 up to a hig aberrations on rat b	ial mutation test conducted ac A1535 with and without metal ells of Chinese hamster (CHO) levels with and without metab ohoma cells of L5178Y/TK more tion (chromosome damage) in h intraperitoneal injection dose oone marrow conducted simila gh dose of approximately 700	bolic activation with St HGPRT conducted a olic activation S9. Neg use tested up to cytoto a study on mice cond of 4.0 g/kg. Negative rly to OECD test rule I	9. Negative in a gene mutation ccording to OECD test rule No gative in a gene mutation pxic dose levels. Negative for ducted according to OECD rule e in a study of chromosome
Conclusion/Summary		Not available.			
Carcinogenicity					
Name of product/ingredient Res	ult	Species	s Dose		Exposure
Reaction product: bisphenol-A epichlorohydrin and epoxy resin (average molecular weight <=700)		-	-		-
Observations		of carcinogenicity u exposure of male m carcinogenicity was	oral probe in rats, according to up to the high dose of 100 mg/k nice and rats according to the or s noted in male mice treated up n dose of 1000 mg/kg/day.	kg/day. Studies have I DECD Standard No. 4	been conducted of dermal 153No evidence of
Name of product/ingredient Res	ult	Species	s Dose		Exposure
Reaction product: bisphenol-F epichlorohydrin and epoxy resin (average molecular weight <=700)		-	-		-
Observations		The capacity of Bisphenol F diglycidyl ether (BPFDGE) to induce local and systemic tumours was assessed in a 24-month study with "skin painting" on mice. The skin treatment was carried out on th mice twice a week with a solution of up to 10% Bisphenol F diglycidyl ether (BPFDGE) without inducing any negative result of incidence of tumours or local skin effects. Accordingly, BPFDGE is n considered carcinogenic on mice in the conditions of this study. The NOAEL was estimated to be approximately 800 mg/kg/day.			
Conclusion/Summary		Not available.			
oxic for reproduction					
Conclusion/Summary		Not available.			
eratogenicity					
Name of product/ingredient Res	ult	Species	s Dose		Exposure
Reaction product: bisphenol-A		-	-		-

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Name of product/ingredient	Result		Species	Dose	Exposure
resin (average molecular weight <=700)					
Observations		or in rabbi No. 414. T mg/kg/day The study	ts following dermal treatment, in the studies with an oral dosing which produced maternal tox of skin toxicity on rabbit was ca	evelopment toxicity in rats and n studies carried out in accorda probe have been carried out up icity based on the reduction of t arried out up to a high dose of 3 ction of the increase in body we	nce with the OECD standard to a high dose of 180 the increase in body weight. 300 mg/kg/day, which induced
Name of product/ingredient	Result		Species	Dose	Exposure
Reaction product: bisphenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)			-	-	-
Observations		Bisphenol A diglycidyl ether (DGEBPA) was tested for its embryo/fetal toxicity and teratogenicity in pregnant rabbits. DGEBPA was applied daily to the back (shaved) of white New Zealand rabbits at doses of 0 (polyethylenglycols, carrier control), 30, 100 or 300 mg/kg of body weight/day at a volumetric dose of 1 ml/kg of body weight/day from day 6 to 18 of gestation. Twenty-six inseminated rabbits were used for dosage group, obtaining a minimum of 20 pregnant rabbits for each level of exposure. An occlusive absorbent gauze dressing and non-absorbent cotton was placed on the dosage area on the back of each rabbit. The dressing was held in place for a minimum of 6 hours/day with a protective lycra/spandex cover. Following the period of occlusion, the dressing and protective cover were removed. Effects of maternal toxicity were observed in the pregnant rabbits in the 300 mg/kg dosage group, as demonstrated by the moderate to serious erythemas, fissures, haemorrhages and slight bruising on the exposure site. Similar, but less serious, skin lesions were observed on the pregnant rabbits in the 100 mg/kg/day exposure group. The effects on the skin (slight erythemas) observed on the pregnant rabbits in the 30 mg/kg/day group were not considered toxicologically significant. No proof of embryo/fetotoxicity or teratogenicity was observed at any dose, meaning that the no effect level (NOEL) on the embryo/fetus is 300 mg/kg of body weight/day.			
Name of product/ingredient		the no ene	Species	Dose	Exposure
Reaction product: oxirane, mono[(C12-14-alchilossi)metil] derivatives	-		-	-	-
Observations		method ar	nd according to OECD test rule	eously on rats according to the I No. 414, the NOAEL for adver gh dosage level of 200 mg/kg/c	se effects in both the mother
Conclusion/Summary		Not availa	ble.		
Specific toxicity for target Not available. Specific toxicity for target Not available. Inhalation hazard Not available. Information of the most p Not available. Potentially acute effects of	t organs (STOT) robable means c	- Repeat	ed exposure		
Contact with eyes		Causes se	erious eye irritation.		
Inhalation		Causes serious eye irritation. Irritant for the mouth, throat and stomach.			
Contact with skin		Causes skin irritation.			
eentaet man entit		May cause	e an allergic skin reaction.		
			-		
		No known	significant effects or critical ha	zards.	
Swallowing			-		
Swallowing Symptoms connected to p Contact with eyes	physical, chemic	al and to	-	<u>cs</u>	
Swallowing Symptoms connected to p	physical, chemic	al and to	xicological characteristic	<u>cs</u>	
Swallowing Symptoms connected to p	physical, chemic	al and to Adverse s	ymptoms may include the follow	<u>cs</u>	
Swallowing Symptoms connected to p Contact with eyes	physical, chemic	al and to Adverse s Tearing.	ymptoms may include the follow	<u>cs</u>	
Swallowing Symptoms connected to p	physical, chemic	al and to Adverse s Tearing. Reddening No specifi	ymptoms may include the follow	<u>cs</u> wing: irritation or pain.	



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Immediate, delayed and chronic effects deriving from long and short term exposure Short-time exposure Not available. Potential immediate effects Potential delayed effects Not available. Long-term exposure Potential immediate effects Not available. Potential delayed effects Not available. Potentially chronic effects on health Conclusion/Summary Not available. General Once an individual is sensitised, a serious allergic reaction may occur following later exposure to very low levels. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Effects on development No known significant effects or critical hazards. Effects on fertility No known significant effects or critical hazards.

SECTION 12. Ecological information

12.1 Ecotoxicity

12.1 Ecotoxicity			
Name of product/ingredient	Result	Species	Exposure
Reaction product: bisphenol-A- epichlorohydrin and epoxy resin (average molecular weight <=700)	Acute CL50 1.3 mg/l - 203 Fish, Acute Toxicity Test	Fish - Fish	96 h
	Acute EC50 2.1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates - Daphnia	48 h
	Acute NOEC 0.3 mg/l - 211 Daphnia Magna Reproduction Test	Aquatic invertebrates - Daphnia	21 d
	Acute CL50 > 11 mg/l	Aquatic plants - Algae	72 h
Name of product/ingredient	Result	Species	Exposure
Reaction product: bisphenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)	Acute CL50 2.54 mg/l	Fish - Fish	96 h
	Acute EC50 2.55 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates - Daphnia	48 h
	Acute EC50 > 1.000 mg/l - 201 Alga, Growth Inhibition Test	Aquatic plants - Algae	72 h
Name of product/ingredient	Result	Species	Exposure
Reaction product: oxirane, mono[(C12-14-alchilossi)metil] derivatives	Acute CL50 > 1.8 g/l - 203 Fish, Acute Toxicity Test	Fish - Rainbow trout, Donaldson trout	96 h
	Acute CL50 > 5.0 g/l - 203 Fish, Acute Toxicity Test	Fish - Lepomis	96 h
	Acute EC50 7.2 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates - Daphnia	48 h
	Acute EC50 844 mg/l - 201 Alga, Growth Inhibition Test	Aquatic plants - Algae	72 h
Contains	Not available.		
12.2 Persistence and degradabi	lity		
Name of product/ingredient Test	Result	Dose	Inoculant
Reaction product: bisphenol-A epichlorohydrin and epoxy resin (average molecular	-	-	-



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Name of product/ingredient Test	t	Result	Dose		Inoculant
weight <=700)					
Observations			reached 6-12% after 28	days of contact in a st	within the contact period of udy conducted according to conditions of the study.
Name of product/ingredient Test	t	Result	Dose		Inoculant
Reaction product: bisphenol-F epichlorohydrin and epoxy resin (average molecular weight <=700)			-		-
Observations			ng rules No. 301 B and 30)1 D. The maximum p	the screening study condition ercentage of biodegradation days of contact.
Name of product/ingredient Test	t	Result	Dose	-	Inoculant
Reaction product: oxirane, mono[(C12-14-alchilossi)metil] derivatives		-	-		-
Observations		In a study conducted acc Nevertheless, in a study biodegradation was 34.7	conducted according to C		ation was 57-655 after 7 days. 1 D (closed bottle)
Contains		Not available.			
12.3 Bioaccumulative potentia	al				
Name of product/ingredient	LogPow		BCF	Poten	tial
Reaction product: bisphenol-A- epichlorohydrin and epoxy resin (average molecular weight <=700)	2,64 - 3,78	3	3 - 31 31,00	Low	
Reaction product: bisphenol-F- epichlorohydrin and epoxy resin (average molecular weight <=700)	3,3		150 150,00	Low	
Oxirane, mono[(C12-14-alchilossi)metil] derivatives	3,77		160 - 263 160,00	Low	
12.4 Mobility in the soil					
Soil/Water partition coefficient (K	(OC)	Not available.			
Mobility		Not available.			
12.5 Results of the PBT and v Based on available data, the prod 12.6 Other adverse effects Information not available.			substances in percenta	ages exceeding 0.19	%.
SECTION 13. Disposal consid	erations				
13.1 Waste processing metho Product	ds				
Dispo conce autho Dispo Untre		The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products must always comply with the provisions of law concerning environmental protection and waste disposal and the requirements of any relative local authority. Dispose of surplus and non-recyclable products via an authorised waste disposal contractor. Untreated waste must be disposed of in the sewer system unless it is not fully compliant with the requirements of every agency and regulation.			
Hazardous waste		Product classification ma	ay meet the criteria set for	th for hazardous wast	е.
Packaging					
uonuging		The generation of waste	should be avoided or min	imised wherever poss	ible.
Disposal methods		Waste packaging must b Incineration or dumping r	e recycled.		



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Empty containers or liners may retain some product residue. Prevent the spilled material from dispersing, flowing into or coming in contact with the soil, waterways, drains and sewers.

SECTION 14. Transport information

ADR/RID - ADN/RID IMDG IATA

-	ADR/RID - ADN/RID	IMDG	ΙΑΤΑ
14.1 UN number	3082	3082	3082
14.2 UN Shipping name	Hazardous liquid product n.o.s. (epoxy resins)	Hazardous liquid product n.o.s. (epoxy resins)	Hazardous liquid product n.o.s. (epoxy resins)
14.3 Hazard classes	9	9	9
14.4 Packaging groups	111	111	111
14.5 Hazardous for the environment Marine Pollutant	Yes	Yes	Yes
14.6 Special precautions	Transportation inside the user's property: always perform transportation with the containers closed, stored vertically and secured to the vehicle. Make sure that the people performing transport are qualified to effectively intervene in case of accident and/or spillage	Transportation inside the user's property: always perform transportation with the containers closed, stored vertically and secured to the vehicle. Make sure that the people performing transport are qualified to effectively intervene in case of accident and/or spillage	Transportation inside the user's property: always perform transportation with the containers closed, stored vertically and secured to the vehicle. Make sure that the people performing transport are qualified to effectively intervene in case of accident and/or spillage
Further information	Tunnel code: E	Emergency plan: F-A/S-F	Emergency plan: F-A/S-F
14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	N.A.	N.A.	N.A.

SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture <u>EC Regulation No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to	authorisation - Substances of very high concern
Very concerning substances	
Carcinogenic	Not in the list.
Mutagenicity	Not in the list.
Toxic for reproduction	Not in the list.
PBT	Not in the list.
vPvB	Not in the list.
Other EU standards	
REACH status	Substances in this product have been pre-registered and/or registered or are exempt from compulsory registration in accordance with EC Regulation No. 1907/2006 (REACH).
Aerosol generators	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	Not applicable.
EU - with Informed Consent. List of chemical products subject to the PIC international procedure (Annex I - Part 1)	Not in the list.
EU - with Informed Consent. List of chemical products subject to the PIC international procedure (Annex I - Part 2)	Not in the list.
<i>EU - with Informed Consent. List of products of the PIC international procedure (Annex I - Part 3)</i>	Not in the list.
ΑΟΧ	The product contains halides linked to organic compounds that could contribute to the AOX value (adsorbable organic halides) of the waste water.



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Seveso Directive II This product is controlled according to directi	ve Seveso II.	
Hazard criteria		
Category		
	gory of chronic toxicity 2 C9II: Toxic to the environment	
C9II: Toxic to the environment		
National standards		
Decree on hazardous accidents	Applicable. Category: Hazardous for the environment.	
Risk class for water	WGK 2, Annex No. 4	
Technical instructions on air quality control	Nr. 5.2.5.	
International regulations		
International lists	Australian inventory (AICS, List of chemicals for Australia): All con Canadian inventory: All components are listed or exempt. Japanese inventory: All components are listed or exempt. Chinese inventory (Inventory of chemicals for China): All compone Korean inventory (KECI, list of all chemicals for Korea): All compone New Zealand inventory (NZI or C list of all chemicals for New Zeal exempt. Philippines inventory (PICCS list of all chemicals for the Philippine exempt. Inventory of the United States (TSCA Toxic Substances Control A listed or exempt. Taiwan inventory (CSNN): All components are listed or exempt.	ents are listed or exempt. nents are listed or exempt. land): All components are listed or es): All components are listed or
List of the Convention on the prohibition of chemical weapons Table I Chemical Compounds	Not in the list.	
List of the Convention on the prohibition of chemical weapons Table II Chemical Compounds	Not in the list.	
List of the Convention on the prohibition of chemical weapons Table III Chemical Compounds	Not in the list.	
15.2 Chemical safety assessment This product contains substances that still require chemical safety Assessments.		
SECTION 16. Other information		
	according to EC Regulation No. 1272/2008 (CLP/GHS)	
Classification	Justification	
Skin Corr./Irrit. 2, H315	Calculation method	
Eye Dam./Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 2, H411	Calculation method	
Integral texts of the abbreviated hazard s	statements	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eve irritation	

H319 Causes serious eye irritation. H411

Toxic to aquatic organisms with long-term effects

Integral texts of the classifications [CLP/GHS]

Skin Corr./Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Aquatic Chronic 2, H411	LONG-TERM HAZARD FOR THE AQUATIC ENVIRONMENT - Category 2
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
Eye Dam./Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

- CAS NUMBER: Chemical Abstract Service NUMBER



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- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EINECS: European Inventory of existing Commercial Chemical substances
- GefStoffVO: Ordinance on hazardous substances in Germany
- GHS: Global harmonised system to classify and label Chemical products
- IATA: International Air transport Association
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"
- IMDG: International maritime code for transport of Dangerous Goods
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- LTE: Long-term exposure
- PNEC: Predicted no-effect concentration
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STE: Short-time exposure
- STEL: Short-time exposure limit
- STOT: specific organ Toxicity
- TLV: occupational exposure threshold limit value
- TWA: 8-hour time-weighted average exposure limit
- OEL: EU occupational exposure limit value
- VLE: occupational exposure limit value
- WGK: water hazard class in Germany
- N.A.: Not applicable.
- N.D.: Not available
- PNEC: Predicted no-effect concentration
- RNN: REACH Registration NUMBER
- PBT: Persistent bioaccumulative and toxic according to REACH
- vPvB: Very Persistent and Very bioaccumulative according to REACH

This safety data sheet was developed in compliance with Annex II - Guide to the compilation of Safety Data Sheets of EC Regulation No. 1907/2006 - EC Regulation No. 453/2010.

The information contained herein is based on our knowledge at the above date.

These refer solely to the indicated product and do not constitute a guarantee of particular quality.

The user is required to ensure the suitability and completeness of this information in relation to the specific intended use.