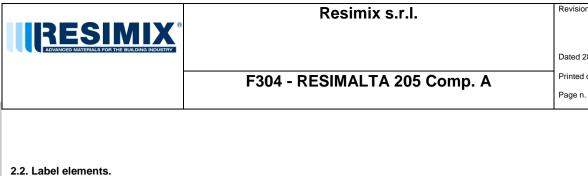


The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Germ cell mutagenicity, category 2	H341	Suspected of causing genetic defects.
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,	H412	Harmful to aquatic life with long lasting effects.
category 3		



Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H341	Suspected of causing genetic defects.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

Dood	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves / clothing and eye / 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.
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:	2,3-epoxypropyl o-tolyl ether Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

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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The full wording of hazard (H) phrases is given in section 16 of the sheet. Identification. Classification 1272/2008 (CLP). INERT CAS. - $50 \le x < 100$ EC. -INDEX. -Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). CAS. 25068-38-6 5≤x< 10 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 EC. 500-033-5 INDEX. 603-074-00-8 Reg. no. 01-2119456619-26 2,3-epoxypropyl o-tolyl ether CAS. 2210-79-9 1≤x< 5 Muta. 2 H341, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, Note с EC. 218-645-3 INDEX. 603-056-00-X Reg. no. 01-2119966907-18

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. 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.



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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.

6.1. Personal precautions, protective equipment and emergency procedures.

If there are no contraindications, spray powder with water to prevent the formation of dust. 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 and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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.



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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.

Reaction product: bisp Predicted no-effect concentr		ydrin); epoxy re	sin (number a	verage molecu	ular weight ≤ '	700).		
Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for water, inter Normal value of STP microo Normal value for the food ch Normal value for the terrestr	r sediment er sediment rmittent release irganisms nain (secondary poison ial compartment	0,		0,006 0,001 0,996 0,1 0,018 10 11 0,196		mg/l mg/kg mg/kg mg/kg mg/l mg/kg mg/kg		
Health - Derived no-effe	Effects on	NVIEL			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	0,75 mg/kg	VND	0,75 mg/kg		Systemic		Systemic
Inhalation.		bw/d		bw/d	VND	12,25 mg/m3	VND	12,25 mg/m3
Skin.	VND	3,571 mg/kg bw/d	VND	3,571 mg/kg bw/d	VND	8,33 mg/kg bw/d	VND	8,33 mg/kg bw/d
2,3-epoxypropyl o-tolyl								
Predicted no-effect concentr	ation - PNEC.							
Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat Normal value for water, inter Normal value of STP microo Normal value for the terrestr	r sediment ter sediment rmittent release irganisms ial compartment			0,0028 0,00028 0,039 0,004 0,028 10 0,012		mg/l mg/l mg/kg mg/kg mg/l mg/l mg/kg		
Health - Derived no-effe		MEL			F (()			
Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
				oyotonno		oyotonno		oysternie



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Oral.	VND	0,14 mg/kg bw/d				
Inhalation.			40 mg/m3	40 mg/m3	0,46 mg/m3	0,46 mg/m3
Skin.					VND	0,139 mg/kg bw/d

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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

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 None required, unless indicated otherwise in the chemical risk assessment.

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. Upper explosive limit. Vapour pressure. Vapour density	solid grey mild Not available. Not available. Not available. Not applicable. Not available. Not available.
vapour density	Not available.



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Relative density.	1,88
Solubility	Not available.
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.	
VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

SECTION 10. Stability and reactivity.

10.1. Reactivity.

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

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

2,3-epoxypropyl o-tolyl ether No data available about the reactivity on the product itself.

10.2. Chemical stability.

Excessively high temperatures can cause thermal decomposition.

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

2,3-epoxypropyl o-tolyl ether Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

See paragraph 10.1.

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. The reaction with aminic components is not reversible.

2,3-epoxypropyl o-tolyl ether Stable in normal conditions of use and storage.



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10.4. Conditions to avoid.

Avoid overheating.

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.

2,3-epoxypropyl o-tolyl ether Avoid contact with: strong acids,strong bases,strong oxidising agents. Avoid exposure to: heat.

10.5. Incompatible materials.

Oxidising or reducing agents. Strong acids or 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.

2,3-epoxypropyl o-tolyl ether Avoid contact with: acids,bases,oxidising agents.

10.6. Hazardous decomposition products.

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

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.

2,3-epoxypropyl o-tolyl ether In decomposition develops: carbon oxides,toxic fumes.

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).

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2,3-epoxypropyl o-tolyl ether LD50 (Oral).> 5000 mg/kg male/female rat LD50 (Dermal).> 2000 mg/kg male/female rat LC50 (Inhalation).> 6,1 ppm/4h male/female rat 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 SKIN CORROSION / IRRITATION. Causes skin irritation. SERIOUS EYE DAMAGE / IRRITATION. Causes serious eye irritation. RESPIRATORY OR SKIN SENSITISATION. Sensitising for the skin. GERM CELL MUTAGENICITY. Suspected of causing genetic defects. 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 the aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity. 2,3-epoxypropyl o-tolyl ether LC50 - for Fish. > 2,8 mg/l/96h Salmo gairdneri EC50 - for Crustacea. 3,3 mg/l/48h Daphnia magna 5,1 mg/l/72h Pseudokirchnerella subcapitata EC50 - for Algae / Aquatic

1,7 mg/l/48h Daphnia magna

0,3 mg/l Daphnia magna

9,4 mg/l/72h Scenedesmus capricornutum

Plants. 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. EC50 - for Algae / Aquatic Plants. Chronic NOEC for Crustacea.

12.2. Persistence and degradability.

2,3-epoxypropyl o-tolyl etherSolubility in water.NOT rapidly biodegradable.11 a 17 % 28 d

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RESIMIX		
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Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).	-lister scheles 5.4 s 0.4 moll	
Solubility in water.	slightly soluble > 5,4 - < 8,4 mg/l 5 % 28 d	
NOT rapidly biodegradable.	5 % 28 d	
12.3. Bioaccumulative potential.		
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). BCF.	31	
12.4. Mobility in soil.		
2,3-epoxypropyl o-tolyl ether		
Partition coefficient: soil/water.	2,32	
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Partition coefficient: soil/water.	2,65	
12.5. Results of PBT and vPvB assess		

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.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information.

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he product is not dangerous under curr ne International Maritime Dangerous Go 4.1. UN number.	rent provisions of the Code of International Carriage of Dangerous G ods Code (IMDG), and of the International Air Transport Association	Goods by Road (ADR) and by Rail (RID), c (IATA) regulations.
ot applicable.		
4.2. UN proper shipping name.		
lot applicable.		
4.3. Transport hazard class(es).		
lot applicable.		
4.4. Packing group.		
lot applicable.		
4.5. Environmental hazards.		
lot applicable.		
4.6. Special precautions for user.		
Not applicable.		
4.7. Transport in bulk according to A	nnex II of Marpol and the IBC Code.	
nformation not relevant.		
SECTION 15. Regulatory in	formation.	

Seveso Category - Directive 2012/18/EC:



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

None.

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.

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.

2 3

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:

Muta. 2	Germ cell mutagenicity, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category
H341	Suspected of causing genetic defects.
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.
H412	Harmful to aquatic life with long lasting effects.



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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 (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

- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 Regulation (EU) 487/2012 (III Atp. CLP) of the European Parliament
 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: first issue.