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SDS no. 054/4

Revision: 16.04.2015

Printing date: 09.06.2015

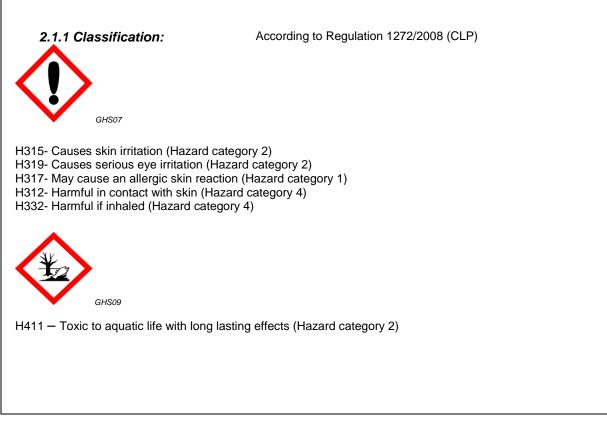
Trade name: Antikorozin E - A component

1.Identification of the substance/mixture and o	f the company/undertaking
1.1 Product Identifier	
Trade name:	Antikorozin E - A component
1.2 Relevant identified uses of the substance or mixture and uses advised against	
• Use of the substance/mixture:	Two-component, anti-corrosive, epoxy resin-based coating for protection of steel surfaces
1.3 Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	ADING AD, Novoselski pat (1409 Str.) No. 11 1060 Skopje, Republic of Macedonia ++389 2 2034-800 +389 2 2034-821, 2034-822
	+389 2 2034-821, 2034-822 +389 2 2034-850, 2034-853
1.4 Emergency telephone number	
• Emergency telephone number:	Toxicology Information Centre +389 2 3147-635

2. Hazards identification

2.1 Classification of the substance or mixture

In accordance with the Rulebook on Classification, Labelling and Packaging of Chemicals and Certain Products in line with UN's Globally Harmonised System of Classification and Labelling of Chemicals (Official Gazette of the Republic of Macedonia no. 145/10, 53/11 and 164/13)





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Safety Data Sheet according to 1272/2008/EC

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de name: Antikorozin E - A component		
E3		
GHSO2		
226- Flammable liquid and vapour		
azard category 3)	According to Regulation 1272/2008 (CLP)	
	5 5 7 7	
2.2. Label elements		
Hazard pictogram:		
	• • • • • • • • • • • • • • • • • • • •	
 Signal word: 	GHS07 GHS05 GHS02	
Signal word:	H315- Causes skin irritation	
	H319- Causes serious eye irritation	
• H- Hazard statements:	H317- May cause an allergic skin reaction H411- Toxic to aquatic life with long lasting effects	
	H312- Harmful in contact with skin	
	H226- Flammable liquid and vapour H332- Harmful if inhaled	
• P- Precautionary	P280- Wear protective gloves/protective clothing/ey	
statements:	protection/face protection	
	P262- Do not get in eyes, on skin, or on clothing P264- Wash thoroughly after handling	
	P273- Avoid release to the environment	
	P210- Keep away from heat/sparks/open flames/hot surfaces	
	No smoking. P261- Avoid breathing dust/fume/gas/mist/vapours/spray.	
	P305+P351+P338 – IF IN EYES: Rinse cautiously with water for	
	several minutes. Remove contact lenses, if present and easy te	
	do. Continue rinsing.	
	P304+P340 – IF INHALED: Remove victim to fresh air and kee at rest in a position comfortable for breathing.	
Classification:	According to Directive 67/548/EEC	
R- Risk statements:	R36/38- Irritating to eyes and skin	
	R51/53- Toxic to aquatic organisms, may cause long-terr adverse effects in the aquatic environment	
	R43- May cause sensitisation by skin contact	
	R10- Flammable R20/21- Harmful by inhalation and in contact with skin.	
• S- Safety statements:	S37/39- Wear suitable gloves and eye/face protection	
-	S24/25- Avoid contact with skin and eyes	
	S61- Avoid release to the environment S16- Keep away from sources of ignition – No smoking	
	S16- Keep away from sources of ignition – No smoking S26- In case of contact with eyes, rinse immediately with plent	
	of water and seek medical advice	
	S63- In case of accident by inhalation: remove casualty to fres air and keep at rest	
2.3 Other hazards	PBT: Not applicable	
PBT and vPvB results:		



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3.1 Substances		
Not applicable)	
3.2 Mixtures		
Chemical chai	racterization: Epoxy resin	
Dangerous co		
CAS: 25068-38-6 EINECS: 500-033-5	Bisphenol A (epichlorohydrin) GHSO7 Skin irritation (Hazard category 2), H315; Skin sensitivity (Hazard category 1), H317; Eye irritation (Hazard category 2), H319 Xi R 36/38, R43 GHSO9 Toxic to aquatic life (Hazard category 2), H411 N R51/53,	15-25 %
CAS: 1330-20-7 EINECS: 215-535-7	Xylene GHS07 Skin irritation (Hazard category 2), H315; Harmful in contact with skin (Hazard category 4), H312; Harmful if inhaled (Hazard category 4), H332 Xi, Xn R38, R20/21 GHS02 Flammable liquid and vapour (Hazard category 3), H226, R10.	10-20%

4. First aid measures

4.1 Description of first aid measures

General information:	Immediately remove contaminated clothing and call a physician if symptoms of poisoning develop.
After inhalation:	Remove the person to fresh air. If unconscious, place in a position comfortable for breathing and get medical attention.
After skin contact:	Wash immediately and continuously with plenty of water and soap.
• After eye contact:	Rinse eyes under running water for several minutes with the eyelids held wide open. If symptoms persist, seek medical advice.
• After swallowing:	Do not induce vomiting. Immediately call a doctor. Drink plenty of water and provide fresh air.
4.2 Information for doctor	
 Most important symptoms 	
and effects, both acute and delayed	No relevant additional information available.
4.3 Indication of any immediate med	ical
attention and special treatment need	led
 Indication of any 	
immediate medical	No relevant additional information available.
attention and special treatment needed	



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5. Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing media:

Carbon dioxide, powder or water spray. Fight larger fires with water jet and use suitable fire extinguishing media in accordance with the prescribed rules.

5.2 Special hazards arising from the substance or mixture

 Special hazards arising from the substance or mixture:

Carbon monoxide. Under certain fire conditions, traces of toxic gases may be released.

5.3 Advice for firefighters

Protective equipment:

Suitable protective equipment.

6. Accidental release measures

6.1 Personal precautions, protective

equipment and emergency procedures

Personal precautions:	Wear suitable protective clothing and keep unprotected persons away.
6.2 Environmental precautions	
• Environmental precautions:	Do not allow the material to enter soil/sewage system, surface water. Inform the competent authorities in case of spillage into the sewage system.
6.3 Methods and material for contain	ment
and cleaning up	
Methods for cleaning up:	The contaminated material must be disposed of according to the relevant rules on disposal. Absorb spillage with suitable absorbent material (diatomaceous

ventilation in the room.

7. Handling and storage

7.1 Precautions for safe handling

• Precautions for safe handling:

Precautions against fire and explosion:

Ensure appropriate ventilation in the area where this material is handled. Avoid contact with skin and eyes.

earth, sand, acid-binding agents, etc.) Ensure appropriate

No special precautions required

7.2 Conditions for safe storage, including

any incompatibilities

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- Conditions for storerooms
 Store in a dry, well-ventilated area in containers suitable for
 storage.
- 7.3 Specific end use(s)
- Specific storage conditions

No relevant additional information available.

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1 Co	ontrol parameters	
•	Ingredients with limit values that require monitoring at the workplace:	Not required. DNEL Dermal-8.33 mg/kg bw/day Inhalation-12.25 mg/m ³ PNEC Freshwater – 0.006 mg/l Freshwater sediment – 0.0627 mg/kg/wwt Marine – 0.0006 mg/l Marine sediment – 0.0627 mg/kg/wwt Soil – 0.0478 mg/kg/wwt
•	Additional information:	No additional information.
3.2 Ex protec	posure controls and personal ction	
•	Exposure controls	Ensure ventilation in the area of use.
•	Personal protective equipment	Keep away from food and drink. Immediately remove contaminated clothing and avoid contact with skin and eyes.
•	Respiratory protection: Hand protection:	Use appropriate respiratory mask in case of prolonged exposure Gloves made of material that is impermeable and resistant to the product (butyl rubber or nitrile rubber).
•	Eye protection:	Safety glasses.
•	Skin protection:	Wear suitable protective clothing.



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	ormation on basic physical and	
•	Appearance: Form: Viscous liquid	
	Colour:	Red
	Odour	Specific
•	Odour threshold	No information available.
	pH at t=20°C	No information available.
•	Melting point	No information available.
	Boiling point	No information available.
•	Flash point	No information available.
•	Evaporation rate	No information available.
•	Flammability (solid, gas)	No information available.
•	Upper/lower flammability or explosive limits	No information available.
•	Vapour pressure	No information available.
•	Vapour density	No information available.
•	Relative density	1.75-1.81 g/cm ³
•	Solubility	(Soluble in organic solvents: xylene, toluene)
•	Partition coefficient: n- octanol/water at 25°C	
		No information available.
	Auto-ignition temperature	No information available.
	Decomposition temperatureNo information available.ViscosityNo information available.	
	Explosive properties	No information available.
•	Oxidising properties	No information available.

10. Stability and reactivity

10.1 Reactivity

• No information available.

- 10.2 Chemical stability:
- Stable under normal temperature and pressure.
- 10.3 Possibility of hazardous reactions:
- No thermal decomposition if used according to specifications.
- 10.4 Conditions to avoid:
- Reactions with bases, numerous organic substances, including alcohols and amines.
- 10.5 Incompatible materials:
- No information available.
- 10.6 Hazardous decomposition products:
- Irritating gases and vapours.



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11. Toxicological information

11.1 Information on toxicological effects

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• Acute toxicity:

LD/LC50 values relevant for classification:		
25068-38-6 Bisphenol A (epichlor	ohydrin)	
Oral	LD 50	>10,000 mg/kg (rat)
Dermal	LD 50	23,000 mg/kg (rabbit)
1330-20-7 Xylene		
Oral	LD 50	4300 mg/kg (rat)
After inhalation	LC 50	18.8-25.9 mg/l (rat)
(6 hours inhalation)		
After inhalation	LD 50	16.9-22.8 mg/l (mice)
(6 hours inhalation)		
Oral	LD 50	50 mg/kg (humans)

• Primary irritant effect

- on the skin
- on the eye
- Sensitization:

Irritating to skin and mucous membranes

Causes irritation. May cause sensitization by skin contact.

12. Ecological information

12.1 Toxicity:

12.1.1 Aquatic toxicity: Toxic. • 25068-38-6 Bisphenol A (epichlorohydrin) EC 50/48h-1.8 mg/3 (daphnia) EC50/72h-11 mg/l (algi) LC50/96h-2 mg/l (leuciscus idus) 1330-20-7 Xylene mean concentration- 221 mg/m³ highest concentration- 442 mg/m³ 12.2 Persistence and degradability: Not readily biodegradable. 12.3 Bioaccumulative potential: No relevant information available. • 12.4 Mobility in soil:

• No relevant information available.

12.5 Results of PBT and vPvB assessment:

• No relevant information available.

12.6 Other adverse effects:

• No relevant information available.



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13. Disposal considerations

13.1 Waste treatment methods

Product waste should be treated in accordance with the Law on Waste Management (Official Gazette of the Republic of Macedonia no. 100/2005, 2/2011, 123/2012, 147/2013), whereas used packaging should be treated in accordance with the Law on Management of Packaging and Packaging Waste (Official Gazette of the Republic of Macedonia no. 161/2001, 136/2011, 39/2012)

- Recommendation:
- May not be disposed of together with household waste. Do not allow the material to enter the sewage system.
- Uncleaned packaging
 Recommendation:

Uncleaned packaging must be disposed of in accordance with relevant regulations.

14. Transport information

14.1 UN number

- ADR, ADN, IMGD, IATA- 3082
- 14.2 UN proper shipping name
 - ADR, ADN, IMGD, IATA- Environmentally hazardous substance

14.3 Transport hazard class

- ADR, ADN, IMGD, IATA-
 - 9-Miscellaneous hazardous materials
- 14.4 Packing group
 - ADR, ADN, IMGD, IATA-
 - 111

14.5 Environmental hazards

- Hazardous
- ADR (Symbol: Fish and tree GHS09)
- IATA (Symbol: Fish and tree GHS09)
- 14.6 Special precautions for user
 - Kempler code-90
 - Warning hazardous material
- 14.7 Transport in bulk
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15. Regulatory information

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

Law on Health and Safety at Work (Official Gazette of the Republic of Macedonia no. 92/2007, 137/2013, 164/2013, 158/2014); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 145/2010, 53/2011, 164/2013); Law on Environment (Official Gazette of the Republic of Macedonia no. 53/2005, 24/2007, 93/2013). Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transport of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 291/2014); Rulebook on Specific Requirements for the Legal Persons Trading in Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 132/2008); Rulebook on Labelling and Packaging of Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 85/2009); Rulebook on Hazardous Substances, Threshold Limit Values of Hazardous Substances and Criteria or Properties for Classifying Substances as Hazardous (Official Gazette of the Republic of Macedonia no. 25/2010); List of Prohibitions and Restrictions in the Use of Chemicals (Official Gazette of the Republic of Macedonia no. 57/2011): Rulebook on Chemical Safety Assessment and Contents of the Chemical Safety Report (Official Gazette of the Republic of Macedonia no. 82/2011); List of Polluting Materials and Substances (Official Gazette of the Republic of Macedonia no. 122/2011); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 31/2014); Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transit of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 192/2014).

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.



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16. Other information

Reason for issue: New format

This Safety Data Sheet summarises to the best of our knowledge the health and safety hazard information on the product. Each user should read this Safety Data Sheet and consider the information in the context of how the product should be handled and used, as well as how it should be stored, transported and disposed of. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. This information relates only to the specific product and may not be valid if the product is used in combination with any other material. All the information contained in this Safety Data Sheet is true and up-to-date.

H-statements

H315- Causes skin irritation

H319- Causes serious eye irritation

H317- May cause an allergic skin reaction

H411- Toxic to aquatic life with long lasting effects

H312- Harmful in contact with skin

H226- Flammable liquid and vapour

H332- Harmful if inhaled

P-statements

P280- Wear protective gloves/protective clothing/eye protection/face protection

P262- Do not get in eyes, on skin, or on clothing

P264- Wash thoroughly after handling

P273- Avoid release to the environment

P210- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261- Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

R-statements

R36/38- Irritating to eyes and skin

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R43- May cause sensitisation by skin contact

R10- Flammable

R20/21- Harmful by inhalation and in contact with skin.

S-statements

S37/39- Wear suitable gloves and eye/face protection

S24/25- Avoid contact with skin and eyes

S61- Avoid release to the environment

S16- Keep away from sources of ignition – No smoking

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S63- In case of accident by inhalation: remove casualty to fresh air and keep at rest