

	<h1>SAFETY DATA SHEET</h1>	Form Code: F.1.3
		Revision: 00
		Document Type: Document

PRODUCT NAME:	AA1000-ULTRA CLEAR EPOXY CASTING RESIN	Date:	06/06/2017
PREPARED:	DAMLA ÖZDEMİR	Revision:	00

No. 29204, dated 13 December 2014, entitled "T.C. Regulation on the Safety Data Sheets for Hazardous Substances and Mixtures" issued by the Ministry of Environment and Urbanization, and in accordance with EC 1907/2006 (REACH)

1. Identification of the substance/mixture and of the company/undertaking

Producer Company	ARMOR ART
Address	Orta Bayır Mah. Tunç Sok. No:19/B KAĞITHANE/İSTANBUL
Telephone	+90 212 268 70 75
E-mail	kagan.sari@armorchemical.com
Contact Person	KAGAN SARI
Product Code	AA1000
Product Type	AA1000- ULTRA CLEAR EPOXY CASTING RESIN

Emergency telephone number: 114 (Venom Consultation Center / Only used for local calls.)

2. Hazards identification

2.1 Classification of the substance or mixture

The product has been classified as dangerous according to the provisions of the 1272/2008 (EC) Regulation (CLP) (and subsequent amendments and adaptations). In this respect, the product requires the issuance of a safety data sheet in accordance with the provisions of Regulation (EC) No 1907/2006 and subsequent amendments. Possible additional information on risks to health and / or environment is contained in sections 11 and 12 of this form.

CLP Classification (EC 1907/2006(REACH)) : Mixes, Danger Categories 2, Eye Damage Kat.1 , Skin Sens. 1, Aquatic Chronic 3, H412

Other informations : Keep it where children can not reach. Do not empty the sewer. Wear suitable protective clothing and appropriate protective gloves when working. Attention: . Use only in well-ventilated areas.

2.2 Labelling

Label elements (EC 1907/2006(REACH):

Hazard Signs :



Signal Word :DANGER

H Expressions (Danger Expressions)

H314 Causes severe skin burns and eye damage.

H315 Causes serious skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effect

P Expressions (Precautionary statements)

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P264 Wash ... thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P501 Return to contents / container licensed waste disposal company or Dispose of as per Waste Proceeding.
P273 Avoid release to the environment.

2.3 Other Hazards

It does not contain PBT or vPvB substances

3. Composition/Information on Ingredients

Liquid Mix				
Material Name	EC-No	CAS No	Concentration %	Index No
Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups	-	9046-10-0	30-50	-
Classification (EC 1272/2008) Skin Corr 1B, H314 Eye Damage / Eye Irritation, Hazard Category 1, H318				
Bisfenol-A-Epikloridin	500-033-5	25068-38-6	40-50	603-074-00-8
Classification (EC 1272/2008) Eye Irrit 2, H319 Skin Irrit 2, H315 Skin Sens.1, H317 Aquatic Chronic 2, H411				
1,6 -Esandiyolodigilisidileter	240-260-4	16096-31-4	5-8	-
Classification (EC 1272/2008) Eye Irrit 2, H319 Skin Irrit 2, H315 Skin Sens.1, H317 Aquatic Chronic 3, H412				

Additional information For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

General Information	Get medical attention if any discomfort continues.
Inhalation	Remove the patient from danger area. Provide the person with fresh air. Bring to a stable side position and consult a doctor if there is issue of loss of consciousness.
Ingestion	Rinse your mouth thoroughly with water. Do not induce vomiting, give plenty of water to drink. Please consult your doctor immediately. In case of vomiting, the head should be kept below.
Skin Contact	Remove all clothing which is contaminated and infected with the agent. Wash thoroughly with plenty of soap. May cause irritation, get medical attention.
Eye Contact	Remove contact lenses. Immediately remove eyelids and wash with plenty water. Get medical attention if irritation persists.

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5. Fire Fighting Measures

Suitable Extinguishing	CO2, Dry Chemical Powder, Water, alcohol-resistant foam
Explosion Hazardous Chemicals	Explode during the fire. Keep a distance from unprotected people. Under risk containers should be cooled with water. Firefighting should be advised about the existence of aerosol cans.
Special Protective Equipment	In case of fire, wear independent respiratory protective equipment with surrounding air and chemicals.
Additional Information	In case of combustion, carbon dioxide, carbon monoxide and sulfur gas occurs.

6. Accidental Release Measures

Personal Security Measures	Wear personal protective equipment; See Chapter 8. Remove the fire sources. Do not smoke. Provide adequate ventilation. Turn eye and skin contact. Note the danger of slipping
Environmental Protection Measures	Prevent top surfaces from spreading to groundwater and soil. I want the accumulation to endanger the sanctuary, the basement of the country. In case of accidental sewerage, inform the authorities
Precautions for Cleaning / Collection	Collect the leaked product into a suitable container. Evaluate the suitability of the cabin to be used with the product by checking Chapter 10. Suck in the back with inert absorbent material. Make sure that the escape is ventilated enough at the place where it has arrived. Check for possible incompatibilities for the material in Chapter 7. Disposal of the contaminating material must be carried out in accordance with the provisions contained in article 13.

7. Handling and Storage

General Recommendations for Safe Use	The place is well ventilated. Prevent inhalation of vapors. Keep away from fire sources. Do not smoke. If necessary, measures against electrostatic charging should be taken. Do not use on hot surfaces. Prevent eye and skin contact. Do not eat, drink, smoke or keep food items at work. Observe the label and instructions in the instructions for use. Use the operating method appropriate to the operating instructions.
Safe Storage Terms	Keep it so that unauthorized persons can not reach it. Store the product only in its original packaging and with the mouth closed. Do not store the product on passageways and stairwells. Keep in well-ventilated areas. Keep container tightly closed in a well-ventilated place and protected from direct sunlight. Keep containers away from potentially unsuitable materials by checking the information in Section 10.
Additional Information	Keep out of reach of children

8. Exposure Controls/Personal Protection

Ensure good ventilation of the working place, through effective local suction, in the presence of appropriate technical precautions should always be prioritized with respect to personal protective equipment. Personal protective equipment must bear the CE marking which certifies compliance with the applicable standards.

Protection Equipment






Ventilation	Provide proper suction / ventilation at the workplace. In order to keep the concentration below the maximum value of the working level (ESD), appropriate safety measures must be used.
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Inhalation Protection 	<p>If a threshold value of one or more substances (eg TLV-TWA) is exceeded, it is advisable to wear a B-type filter with a filter type that will be selected according to the concentration limit of use (1, 2 or 3). (Ref. EN 14387 standard). Combination type filters should be provided in case of the presence of different natural gas or vapors and / or particulate gases or vapors (aerosol, smoke, mist, etc.). If the technical measures implemented are not sufficient to limit the exposure of the worker to the considered threshold values, respiratory protection devices must be used. In any case, the protection provided by the mask is limited. Self-contained open air compressed air breathing apparatus (ref. EN 137 standard) or outdoor air intake respirator (ref. EN 138 standard) in case of an odorless or odor threshold above the relevant TLV-TWA value, your jewelry. For the correct choice of respiratory protection equipment, reference is made to EN 529 standard</p>
Hand Protection 	<p>You are guided by category III work gloves (ref. EN 374 standard). For the strict selection of work gloves materials, the following points should be taken into account: compatibility, degradation, breakage and in-process. In preparations, work gloves resistance to chemical substances is not predictable and should be checked before use. Gloves are subject to a wear-out period that depends on the length of use and shape.</p>
Eye Protection 	<p>Wearing airtight protective goggles is recommended (ref. EN 166 standard).</p>
Other Protection	<p>General hygiene regulations concerning the use of chemical substances must be applied. After the work and the work is done, wash your hands. Keep away from food items, drinks and meals. Remove contaminated clothing and protective equipment before entering food-burning areas</p>
Environmental Exposure Controls	<p>Emissions of production processes, including emissions from ventilation devices, should be checked for conformity to environmental protection norms. Product residues should not be discharged into uncontrolled waste water or waterways.</p>

9. Physical and Chemical Properties

Physical appearance	Liquid
Colour	Yellowish
Smell	Amine
Other informations	
Relative Density	0,950 g/cm ³
Flash Point (°C) (min)	100°C < <200°C
Boiling point (°C) (min)	>150°C
Explosion Hazard	No apps.
Viscosity	600-800 mPas (ISO 3219)
Water Solubility	Slightly soluble
Flammability Temperature	350 °C
Oxidizing Properties	No apps
Steam Pressure (20°C) Bar	No apps
Vapor Density	No apps
Freezing point	No apps
pH	No apps
Other informations	
VOC (2010/75/AT Regulation)	0
VOC (Volatile carbon)	0

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10. STABILITY AND REACTIVITY

Stability	Stable under normal temperature values
Conditions to Avoid	Danger of decomposition when exposed to heat in excess of + 50 ° C
Materials to Avoid	There are no special cases to avoid. In any case, we usually apply the usual measures for chemical products.
Harmful Reactivity Risk	Hazardous reactions are not predicted under normal use and storage conditions

11. Toxicological Information

11. 1. Information on Toxic Effects

In the absence of experimental toxicological data related to the product, the product properties, which are considered to be hazardous to health, have been evaluated according to the criteria set out in the normative context for classification based on the criteria. To assess the toxicological effects of exposure to the product, consider the concentrations of the single substances you receive. Acute Effects: May cause eye irritation; Indications may be redness, edema, pain and aging in the eyes. Swallowing can cause health problems, including burned abdominal pain, nausea and vomiting. Acute effects: Contact with skin may cause irritation with erythema, edema, dryness and flaking. It can cause health problems including swallowing, burning, nausea and vomiting, and abdominal pain. The product causes skin irritation (dermatitis originating from the contact) in contact with the skin. Dermatitis occurs following inflammation of the skin that starts in skin areas that are in repeated contact with the sensitizing element. Skin sores may include erythema, edema, papules, bubbles, boils, bumps, slits, and sweating phenomena, depending on the areas affected and the stages of the disease. In severe stages, erythema, edema and capillary hemorrhage are common. In chronic stages, dryness of the bark, clefts, and deepening of the deep are common. The product encompasses eposidic resin. The manufacturer's information is provided below: Based on the toxicological data of some of these products, based on their eosidic properties, this preparation may sensitize and irritate the skin and respiratory tract. This includes low molecular weight epoxidic components with irritating effect on the eyes, mucous membranes and skin. Repetitive contact with the skin may cause irritation and sensitization phenomena, and sensitization may be induced by other eosinophilic composites (cross-sensitization). Avoid contact of the product with the skin and exposure to aerosols and vapors.

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Chemical name	Ownership		Animal
Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups BİSFENOL-A-EPIKLORİDRİN 1,6-Esandiolo diglisidil etere	LD50(Oral)	2885 mg/kg	Rat
		2980 mg/kg	Rabbit
	LD50(Dermal)		Rat
		910 mg/kg	Rat
		2000 mg/kg	Rat

12. Ecological Information

Ürün çevre için tehlikeli kabul edilmelidir ve sulu ortamlar, için uzun vadede negatif etkiler suda yaşayan organizmalar için derecede zehirlilik gösterir.

12.1. Toksisite

BİSFENOL-A-EPIKLORİDRİN

Fish. 1,2 mg/l/96h EC50
Mounc. 1,8 mg/l/48h daphnia EC50 -
Yosunlar / su Bitkileri. 9,4 mg/l/72h

1,6-Esandiolo diglicidil etere

LC50 - Fish. 30 mg/l/96h leuciscus idus ,
EC50 - Mounc. 47 mg/l/48h daphnia

Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups

LC50 - FISH > 220 mg/l/96h FISH

13. Liquidity Related to Liquidation



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Product residues	Do not throw it away with normal household waste. Containers must be recycled or reused. Product residues, non-empty packages should be treated as chemical waste
Local Legislation	Removal of wastes should be in accordance with the applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional and national requirements and should be implemented

14. Transportation Production

UN Number: 3082		
Highways / Railways (ADR/RID)		
UN-shipment mark (UN = United Nations)		
UN 2735		
AMINLER, LIQUID, CORROSIVE, N.O.S. OR POLYAMINE, LIQUID, CORROSIVE, N.O.S.		
Class	8	
Classification Code	8	
UN-Number	2735	
Packing Group	II	
Environmental Hazards	Harmful to the environment	
Tunnel Restriction Code	E	
EMS	F-A, S-B	
Denize Dayanıklı Gemilerle Nakletme (IMDG-Kodu)		
UN-shipment mark (UN = United Nations)		
UN 2735		
AMINLER, LIQUID, CORROSIVE, N.O.S. OR POLYAMINE, LIQUID, CORROSIVE, N.O.S.		
Class	8	
Packing Group	II	
Marine Pollutant	Evet	
Environmental Hazards	Harmful to the environment	

15. MEVZUAT BİLGİLERİ


National regulations;

- T. C. Ministry of Environment and Urbanization, Regulation No. 28848 dated 11 December 2013 on the Classification, Labeling and Packing of Goods and Mixtures.
- T. C. Ministry of Labor and Social Security, Regulation No. 28730 of 6 August 2013 on Health and Safety Measures in Carcinogenic and Mutagenic Studies
- T. C. Ministry of Labor and Social Security, Law No. 6331 of 30 June 2012 on Occupational Health and Safety.
- T. C. Ministry of Labor and Social Security, Regulation No. 28695 of 2 July 2013 on the Use of Personal Protective Equipment in Workplaces.
- T. C. Ministry of Labor and Social Security, Regulation No. 28733 of 12 August 2013 on Health and Safety Precautions in Working with Chemical Matters.
- T. C. Ministry of Environment and Urbanization, 2 April 2015, number 29314, Waste Management Regulation.

16. DİĞER BİLGİLER

The text of hazard information (H) specified in sections 2-3 of the Form:

H Birimleri

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H314 Causes severe skin burns and eye damage.
H315 Causes serious skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effect
H318 Causes serious eye damage
H412 Long lasting, harmful effect in aquatic environment

EUH205 Contains epoxy components. May cause allergic reactions.

Bu güvenlik veri föyünde (şart olmasa da) kullanılmış olabilecek kısaltmalar ve kısa adlar listesi:

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"
(IATA) ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"
(ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent


ATE	Acute toxicity estimate
BCF	Bioconcentration factor
DNEL	Derived No-Effect level substance
IBC kodu	International chemical spill code
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category
PNEC	Predicted effect concentrations
STP	Waste water treatment plants
SU	Used sector
ZAO/KSMS	Time weighte d

Organizer: TSE Certified Safety Information Form Editor.

Safety Data Sheet Preparer:			
Name/Surname	Damla Özdemir	Document Date	23.10.2016
Cert No.:	01.103.17	Effective Date	23.10.2019

DISCLAIMER

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