

Crystal Clear EPOXY Resin -Art & Tabletop Resin by ARC for Bars, Wood finishes, River Tables, See Through Encapsulations, Art Work 42 Oz Resin

SECTION 1: IDENTIFICATION

GHS PRODUCT IDENTIFIERS:

PRODUCT NAME: Crystal Clear EPOXY Resin -Art & Tabletop Resin by ARC for Bars, Wood

finishes, River Tables, See Through Encapsulations, Art Work 42 Oz Resin

SYNONYMS, TRADE NAMES: 4,4'-(1-Methylethylidene)bisphenol, 4,4'-Dihydroxydiphenylpropane

REACH registration number 01-2119457856-23-XXXX

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

USES: Casting resin for decorative furniture application

RESTRICTIONS ON USE: None Identified

SUPPLIER'S DETAILS: ARCMARIN CRYSTAL CLEAR RESIN SYSTEM KAYNARCA MAH. AYDINLI YOLU CAD.

KAFKAS SK:NO:24/B PENDIK ISTANBUL

MANUFACTURER/SUPPL

IER: ARCMARIN CRYSTAL CLEAR RESIN SYSTEM KAYNARCA MAH. AYDINLI YOLU CAD. KAFKAS

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B - H360 STOT SE 3 - H335

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

EC number 201-245-8



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Pictogram









Signal word

Danger

Hazard statements

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P310 Immediately call a POISON CENTER/ doctor.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

statements

Supplementary precautionary P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapour/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P281 Use personal protective equipment as required.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P310 Immediately call a POISON CENTER/ doctor.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

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P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Product name BISPHENOL-A

REACH registration number 01-2119457856-23-XXXX

CAS number 80-05-7 **EC number** 201-245-8

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

SECTION 4: FIRST-AID MEASURES

4.1.1DESCRIPTION OF NESSESARY FIRST-AID MEASURES:

INHALATION: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing,

give artificial respiration.

SKIN: Immediately remove contaminated clothing and shoes. Wash the affected area with

plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Seek medical attention if symptoms occur.

EYES: Immediately flush eyes with plenty of clean water for an extended time, not less than

fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Seek medical attention if irritation develops or persists.

INGESTION: Do not induce vomiting. Never give anything by mouth to an unconscious person.

Rinse out the mouth with water. Get medical attention immediately.

4.2.2.MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

SYMPTOMS: Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated

contact. See section 11 for additional information.

4.3.3INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

TREATMENT: Treat symptomatically.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder. Water spray.

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

media

5.2. Special hazards arising from the substance or mixture

Specific hazards Vapours may explode when mixed with air. Containers can burst violently or explode when

heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition may liberate carbon oxides.

5.3. Advice for firefighters

Protective actions during firefighting

Move containers from fire area if it can be done without risk. Use fire fighting measures that suit the surrounding materials. Keep up-wind to avoid fumes. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Avoid inhalation of materials or combustion by-products. Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out. Do not allow water to enter the container as it will react with the product. In case of tank or container fire, fight at the maximum distance or use unmanned hose holder or monitor nozzles.

Special protective equipment for firefighters

Use air-supplied respirator, gloves and protective goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No smoking, sparks, flames or other sources of ignition near spillage. Use suitable respiratory protection if ventilation is inadequate. Keep unnecessary and unprotected people away from area of spill. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Inform authorities if large amounts are involved. Take up spilled product with dust-binding material or suitable vacuum cleaner. Avoid generation and spreading of dust. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13



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SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions Container must be kept tightly closed when not in use. Take precautionary measures against

static discharges. Do not use in confined spaces without adequate ventilation and/or respirator. Good personal hygiene procedures should be implemented. Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from

sunlight. Avoid heat, flames and other sources of ignition. Keep container tightly sealed when

not in use.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

DNEL Industry - Inhalation; Long term systemic effects: 10 mg/m³

Industry - Inhalation; Short term systemic effects: 10 mg/m³ Industry - Inhalation; Long term local effects: 10 mg/m³ Industry - Inhalation; Short term local effects: 10 mg/m³ Industry - Dermal; Long term systemic effects: 1.4 mg/kg/day

Industry - Dermal; Short term systemic effects: 1.4 mg/kg/day Consumer - Inhalation; Long term systemic effects: 0.25 mg/m³ Consumer - Inhalation; Short term systemic effects: 5 mg/m³

Consumer - Inhalation; Long term local effects: 5 mg/m³

- Fresh water; 0.018 mg/l

Marine water; 0.016 mg/lIntermittent release; 0.01 mg/l

- STP; 320 mg/l

Sediment (Freshwater); 2.2 mg/kgSediment (Marinewater); 0.44 mg/kg

- Soil; 3.7 mg/kg

8.2. Exposure controls

Protective equipment



PNEC





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Local exhaust ventilation is generally preferred because it can control the emisions of the contaminant at its source, preventing dispersion of it into the



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general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of

Recommended Practices, most recent edition, for details.

Eye/face protection Wear safety glasses with side-shields conforming to EN166.

Hand protection Wear protective gloves against chemicals according to EN 374-3.

Other skin and body

protection

Provide eyewash station and safety shower. Wear apron or protective clothing in case of

contact.

Hygiene measures Promptly remove any clothing that becomes contaminated. Contaminated clothing should be

placed in a closed container for disposal or decontamination. Wash hands at the end of each work

shift and before eating, smoking and using the toilet.

Respiratory protection Under frequent use or heavy exposure, respiratory protection may be needed. Use filtering

facepieces against particles according to EN 149.

Environmental exposure

controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Appearance Flakes. Crystals.

Colour White.

Odour Odourless.

pH Not available. Not available.

Melting point 155°C

Initial boiling point and range 360°C @ 1013 hPa Bisphenol A shows decomposition at the boiling point.

Flash point 227 °C at 1013 hPa°C CC (Closed cup).

Evaporation rate Not available.

Vapour pressure 0.000000412 Pa @ °C

Relative density 1.2 g/cm3 @ at 25°C

Solubility(ies) 0.0300 @ °C

Partition coefficient log Pow: 3.4 at 21.5 °C

Auto-ignition temperature 510 °C at 1013 hPa°C

Decomposition Temperature Not available.

Viscosity Scientifically unjustified.

Explosive properties Data lacking.

Oxidising properties Not available.

9.2. Other information

Particle size Not available.

SECTION 10. STABILITY AND R EACTIVITY

10.1. Reactivity

Reactivity No hazardous reaction when used as directed.

10.2. Chemical stability

Stability Will decompose at temperatures exceeding 200°C. Stable up to 200 °C.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Not available. Not available.

reactions

10.4. Conditions to avoid

Conditions to avoid Oxidising materials.

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10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly. In the event of fire

or during thermal decomposition, phenol and phenolic derivatives are formed.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Species Rat

Notes (oral LD₅₀) The acute oral LD50 is > 2000 and <= 5000 mg/kg.

Acute toxicity - dermal

Acute toxicity dermal (LD₅o

3,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Acute inflammation of the external nares and ulceration of the incisive ducts were observed

one day after exposure, but these changes were reversible within the 14-day recovery periods

Skin corrosion/irritation

Animal data Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). The skin irritatio

scores for test animals were zero for erythema and edema at 500 mg of BPA exposure.

Serious eye damage/irritation

Serious eye damage/irritation Test species : Himalayan rabbit.

Cornea opacity score: 1, Iris score: 1, Conjunctival redness score: 1, Conjunctival chemo

score: 1 - 2 (according to test animal).

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroBacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity , Oral, Rat , Oral, Mouse No evidence of carcinogenicity in animal studies.

IARC carcinogenicity Not listed.

Reproductive toxicity

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Reproductive toxicity - fertility Two-generation study - 3500 ppm, Oral, Mouse F1 No adverse effects on reproduction or

development were detected. The endpoint considered above is NOEL.

Reproductive toxicity -

Teratogenicity: - NOAEL: 640 mg/kg/day, Oral, Rat Did not increase fetotoxicity and did not

development affect the incidence of malformation in rat.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 50 mg/kg, Oral, Mouse

Target organs Liver Kidneys

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours: 9.4 mg/l, Marinewater fish

Acute toxicity - aquatic

EC₅₀, 48 hours: 10.2 mg/l, Daphnia magna

invertebrates

Acute toxicity - aquatic plants EC₅₀, 96 hours: 1.1 mg/l, Marinewater algae

Endpoint: growth inhibition.

Acute toxicity -

Not available.

microorganisms

Acute toxicity - terrestrial NOEC, 28 days: 100 mg/kg,

Test species: Enchytraeus sp.

Chronic toxicity - fish early life NOEC, : 0.640 mg/l, Pimephales promelas (Fat-head Minnow)

stage REACH dossier information.

Test duration: 36 day. basis for effect: hatchability, survival, growth.

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 3.16 mg/l, Daphnia magna

Toxicity to terrestial plants NOEC: 20 mg/kg-soil, Test duration: 21 day, Test species: Lycopersicon esculentum, Basis

for effect : dry shoot weight.

12.2. Persistence and degradability

Phototransformation - DT₅₀: 0.13 days

REACH dossier information.

Biodegradation Degradation (%)

Water - 89 %:

Based on O2 Consumption. Test duration: 28 day. Meeting the 10 day window guideline.

12.3. Bioaccumulative potential

Bioaccumulative potential BPA shows the low potential for bioaccumulation in fish. BCF: 20 - 67, Cyprinus carpio

(Common carp) Exposure dose: 15 ug/l, exposure duration: 42 day.

Partition coefficient log Pow: 3.4 at 21.5 °C

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12.4. Mobility in soil

Adsorption/desorption

coefficient

Water - log Koc: 2.95 @ °C Test was performed according to OECD Guideline 106.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information If the waste contains designated waste and difficult to separate, incinerate it or reduce the

volume following the similar way as incineration. If applicable, pretreat waste with oil/water separation. Waste is suitable for incineration. Disposal to licensed waste disposal site in

accordance with local waste disposal authority.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

14.2. UN proper shipping name

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(ADR/RID)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



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14.3. Transport hazard class(es)

ADR/RID class 9

IMDG class 9

ICAO class/division 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.



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SECTION 15. REGULATORY INFORMATION

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

No specific authorisations are known for this product.

EU legislation Listed on the candidate list of SVHC for authorisation.

Authorisations (Title VII

Regulation 1907/2006)

Restrictions (Title VIII Entry number: '66

Regulation 1907/2006)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

REVISION DATE: DECEMBER 18, 2019

LEGEND: ACGIH: American Conference of Governmental Industrial Hygienists

ADR/RID: European dangerous goods transport road and rail regulations

CAS No: Chemical Abstract Service Registry Number

DOT: Department of Transportation (U.S.)



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GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

OEL: Occupational Exposure Limits

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

RQ: Reportable Quantity SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average) TDG: Canadian Transportation of Dangerous Goods Act and Regulations

UN: United Nations U.S.: United States

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