

Safety Data Sheet

Base Resin C (water debinding)

According to REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on Classification, labelling and packaging of substances and mixtures.

Version 2; Revision date: 07-05-2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Base Resin C (water debinding)
Product code: 500-BR-CW

Relevant identified use: Photoreactive polymer for the production of three dimensional ceramic components.

Manufacturer: Admatec Europe B.V.
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www.admateceurope.com

Emergency Phone : +31(0)85 0777 101 (Admatec (9.00 – 17.00 (CEST)))
911 (US / Canada)
112 (Europe Emergency number)

2. HAZARDS IDENTIFICATION

Emergency overview warning



HAZARD STATEMENTS

Hazard Statement	Description	Hazard category	Signal word	Hazard Statement
H302	Harmful if swallowed	Acute toxicity, oral	Category 4	Warning
H315	Causes skin irritation	Skin corrosion / irritation	Category 2	Warning
H317	May cause an allergic skin reaction	Sensitisation, skin	Category 1	Warning
H318	Causes serious eye damage	Serious eye damage/eye irritation	Category 1	Danger
H361	Suspected of damaging fertility or the unborn child	Reproductive toxicity	Category 2	Warning

H401	Toxic to aquatic life	Hazardous to the aquatic environment, acute hazard	Category 2	Warning
H411	Toxic to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard	Category 2	

PRECAUTIONARY STATEMENTS – PREVENTION

- P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 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.

PRECAUTIONARY STATEMENTS – RESPONSE

- P362 Take off contaminated clothing.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage. Hazardous to the aquatic environment.
 P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
 P303 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P311 If SKIN irritation or rash occurs: Call a POISON CENTER or doctor/physician.
 P333 + P313 If SKIN irritation or rash occurs: Get medical advice/attention.
 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 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

PRECAUTIONARY STATEMENTS – STORAGE

- P405 Store locked up, protect from light.

PRECAUTIONARY STATEMENTS – DISPOSAL

- P501 Dispose of contents/container to hazardous or special waste collection point.

ADDITIONAL INFORMATION ON THE LABEL

- EUH 208 Contains diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, may cause an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Wt %
Aliphatic Acrylates	55 – 75 %
Acrylate Oligomers	8 – 25 %
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)	0.1 – 4 %

4. FIRST-AID MEASURES

GENERAL ADVICE

Immediately remove contamination on clothing.

INHALATION

If inhaled, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

EYE CONTACT

In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.

SKIN CONTACT

Remove contaminated clothing as needed. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, a waterless cleaner may be used.

INGESTION

Ingestion unlikely. However, if ingested, obtain emergency medical attention.

EMERGENCY MEDICAL TREATMENT PROCEDURES

If pain, blinking, tears, or redness continue, patient should contact an ophthalmologist.

5. FIRE-FIGHTING MEASURES

FLASH POINT METHOD

GT 93C/200F

AUTOIGNITION TEMP. METHOD=

N/DA

FLAMMABLE LIMITS (% VOLUME IN AIR)

LOWER: N/DA

UPPER: N/DA

FIRE AND EXPLOSION HAZARDS

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

EXTINGUISHING MEDIA

Dry chemical

CO₂

Water spray

Foam

Water fog

SPECIAL FIREFIGHTING PROCEDURES

Do not enter fire area without proper protection. decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area. Wear protective equipment during clean-up. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

WASTE DISPOSAL METHODS

Non-contaminated, properly inhibited material is not a RCRA hazardous waste. However, contaminated material/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation. It is the responsibility of the generator to determine at the time of disposal whether the material meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Use registered transporters. Disposal options include landfilling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade, avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

7. HANDLING AND STORAGE

Wear appropriate protective equipment when handling this material (see section 8). Handling of this material does not necessitate heating. Do not use localized heat sources such as band heaters to heat/melt the product. DO not use steam. Avoid spill and contact with skin and eyes. Ensure good ventilation. Avoid inhalation of vapor and spray. Hold the container tightly closed. By handling of this product eye wash fountains and safety showers must be available.

Store product in a cool, dry, ventilated storage with the container tightly closed. The material must be stored under full absence of light.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

RESPIRATORY PROTECTION

If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

EYE PROTECTION

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

SKIN PROTECTION

This material is not expected to cause skin irritation based on available test data. However, skin contact should be avoided to prevent skin sensitization. Wear gloves and protective clothing as needed and practice good personal hygiene. Wash hands and other areas of exposed skin with mild soap and water before eating, drinking, smoking and when leaving work.

ENGINEERING CONTROLS

If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

OTHER HYGIENIC PRACTICES

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

9. PHYSICAL & CHEMICAL PROPERTIES

- APPEARANCE	Low viscous fluid
- COLOR	Clear / pale yellow
- BOILING POINT	ND/A
- pH	6.8 to 7.2 as supplied
- FREEZING POINT	ND/A
- DRY POINT	ND/A
- VAPOR PRESSURE	negligible
- SPECIFIC GRAVITY	1.1 – 1.2 g/cm ³
- EVAPORATION RATE	negligible
- SOLUBILITY IN WATER	negligible
- PERCENT SOLIDS BY WEIGHT	0 %
- PERCENT VOLATILE	0 %
- VISCOSITY	80 to 150 cp at 25C/77F

10. STABILITY AND REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID (STABILITY)

High temperatures, localized heat sources (ie, drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing; strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

HAZARDOUS POLYMERIZATION

May occur

CONDITIONS TO AVOID (POLYMERIZATION)

Leave appropriate headspace above surface level to provide Oxygen inhibition for best stability.

11. TOXICOLOGICAL INFORMATION

INHALATION

No significant signs or symptoms indicative of any adverse health hazard are expected to occur at standard conditions due to the low volatility of this material. However, aerosols, or vapors which may be generated at elevated processing temperatures, may cause respiratory tract irritation. Symptoms of irritation may include coughing, mucous production and shortness of breath.

EYE CONTACT -- PRIMARY ROUTE

May cause minor eye irritation. Symptoms may include excessive tearing, blinking and redness.

SKIN ABSORPTION -- PRIMARY ROUTE

Extensive/prolonged or repeated exposure to this material can result in significant absorption.

SKIN IRRITATION -- PRIMARY ROUTE

This material is not expected to cause skin irritation based on available test data. Although no appropriate human or animal health effects data is known to exist, this material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure.

INGESTION

This material may be a slight health hazard if ingested in large quantities.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No additional medical information found.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms in the water; may cause harmful long-term effects in the aquatic environment.

TOXICITY

N/DA

PERSISTENCE AND DEGRADABILITY

N/DA

BIOACCUMULATION

Possible

MOBILITY IN THE SOIL

Possible, low viscous fluid

OTHER DETRIMENTAL EFFECTS

N/DA

13. DISPOSAL CONSIDERATIONS

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14. TRANSPORT INFORMATION

Transport over land (ADR/RID)

UN number No dangerous goods w.r.t. these transport regulations
 Suitable No dangerous goods w.r.t. these transport regulations

Shipping designation
 Transport hazard class No dangerous goods w.r.t. these transport regulations
 Packing class No dangerous goods w.r.t. these transport regulations

Sea transport (IMDG)

UN number No dangerous goods w.r.t. these transport regulations
 Suitable No dangerous goods w.r.t. these transport regulations

Shipping designation
 Transport hazard class No dangerous goods w.r.t. these transport regulations
 Packing class No dangerous goods w.r.t. these transport regulations

Airfreight

UN number No dangerous goods w.r.t. these transport regulations
 Suitable No dangerous goods w.r.t. these transport regulations

Shipping designation
 Transport hazard class No dangerous goods w.r.t. these transport regulations
 Packing class No dangerous goods w.r.t. these transport regulations

15. REGULATORY INFORMATION

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

- Directive 2012/18/EU
- Named dangerous substances
- ANNEX I None of the ingredients is listed.
- National regulations:
- Water hazard class: Water hazard class 2: hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

15.3 All chemical substances in this compound are listed, or are exempt from TSCA listing, comply with all applicable rules or orders under TSCA, are on the TSCA inventory, are not in Pre-manufacture Notification (PMN) status, are not bound by any Section 5 Significant New Use Rules or obligations, and are not limited/prohibited on any market uses.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases;

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H361 Suspected of damaging fertility or the unborn child
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