



**SAFETY DATA SHEET**  
**According to Regulation (EC) No. 1907/2006 (REACH)**  
**ALUMACOAT-BR**

Date of Printing: 10.04.2024

SDS/ALUMACOAT-BR/REV3

Created:10/04/2024

➤ **Section 1.0 Identification of the substance / mixture and of the company**

**1.1 Product Identifier**

Product Name : Alumacoat – Br (Terracotta Red / Blue /Grey)  
HSN Code : 6914 9000  
Physical state : Viscous Paste (Component 1), Liquid (Component 2)  
Formula : NA  
Synonyms : Alumacoat – Brushable  
Chemical family : Epoxy resin

**1.2 Recommended use of the substance/mixture and restrictions on use**

Recommended use : Abrasion& Corrosion Resistant Coating  
  
For research and industrial use only

**1.3 Details of the supplier of the safety data sheet**



Jyoti Ceramic Industries Pvt Ltd  
C-21, N.I.C.E, Satpur Nashik Maharashtra India  
Tel +91-253-2350120/2351251; Fax +91-253-2350023  
[www.jyoticeramic.com](http://www.jyoticeramic.com)  
E-mail: [info@jyoticeramic.com](mailto:info@jyoticeramic.com)

For EU member states:

<b>EC</b>	<b>REP</b>
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Jyoti Ceramic GmbH  
Frankenstr. 12, 90762 Fürth, Germany  
Tel: +49 911 7871 2084; Fax +49 911 7871 2082  
E-Mail: [sales@jyoticeramic.com](mailto:sales@jyoticeramic.com)

**1.4 Emergency Telephone Number**

Jyoti Ceramic Industries Pvt Ltd  
+ 91-253-2350120  
Reachable during office hours (Indian Standard time): Sunday - Friday: 9.00 AM – 5.00 PM

Jyoti Ceramic GmbH  
+49 911 7871 2084;  
Reachable during office hours (Central European time): Monday - Friday: 8.30 AM – 5.00 PM

➤ **Section 2.0 Hazard(s) identification**



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## 2.1 Classification of the substance or mixture :

### Physical hazard

: Not classified

### Health Hazard

: H319 Eye Irritant 2  
H318 Eye Dam. 1  
H317 Skin Sens. 1  
H315 Skin Irritant 2  
H314 Skin Corr. 1B  
H350 Carc. 1B  
H341 Muta. 2  
H332 / H302 Acute Tox. 4

### Environmental Hazard

: H411 Aquatic chronic 2



## 2.2 Label elements

:

GSH05 GSH07 GHS09 GHS08

## 2.3 Hazards not otherwise classified (HNOC) : No additional information available

## ➤ Section 3.0 Composition / Information on Ingredients

### 3.1 Substance

: Not Applicable

### 3.2 Mixture

Name : Alumacoat Br – Component 1 – Epoxy Resin  
CAS No. : Not available

Name of ingredient	CAS No	EINECS No	Wt %	GHS classification	REACH Reg.
Aluminum Oxide	1344-28-1	215-691-6	60-80	Not classified	01-2119529248-35
Bisphenol A epichlorohydrin polymer	25068-38-6	500-033-5	15-25	H319 Eye Irritant 2 H317 Skin Sens. 1 H315 Skin Irritant 2 H411 Aquatic chronic 2	01- 2119456619-26
Silicon Carbide	409-21-2	206-991-8	5 -15	Not classified	01-2119402892-42



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Phenyl glycidyl ether	122-60-1	204-557-2	2-4	H350 Carc. 1B H341 Muta. 2 H315 Skin Irritant 2 H317 Skin Sens. 1 H332 Acute Tox. 4 H335 STOT Single Exp. 3	01-2119486763-25
Silicon Di-Oxide	7631-86-9	231-545-4	1-2	Not classified	01-2119379499-16

Name : Alumacoat Br – Component 2 – Hardener

CAS No. : Not available

Name of ingredient	CAS No	EINECS No	Wt %	GHS classification	REACH Reg.
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8	>35	H302 Acute Tox. 4 H314 Skin Corr. 1B H318 Eye Dam. 1 H317 Skin Sens. 1	01-2119514687
Phenylmethanol	100-51-6	202-859-9	>30	H302 Acute Tox. 4 H332 Acute Tox. 4	01-2119492630-38
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	1-5	H302 Acute Tox. 4 H319 Eye Irritant 2 H315 Skin Irritant 2	01-2119560597-27

The range variation is to protect the confidentiality or batch to batch composition variation.

Full text of hazard classes and H-statement : see section 15

## ➤ Section 4.0 Description of First Aid measures

### 4.1 Description of first aid measures

**General** : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; If not available show packaging or label.

**After inhaled** : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**After skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with



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water before removing it. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse

After eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

After Ingestion : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Product dust generated through grinding, sanding or machining may cause irritation to the mucous membrane, eyes, skin and respiratory organs.

Symptoms/injuries after inhalation : Vapors are unlikely due to physical properties.

Symptoms/injuries after skin contact : Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. Has caused allergic skin reaction in humans. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Symptoms/injuries after eye contact : May cause slight transient (temporary) eye irritation.

Symptoms/injuries after ingestion : Single does oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amount incidental to normal handling operations.

#### **4.3 Indication of any immediate medical attention and special treatment method**

No additional information available

### **➤ Section 5.0 Firefighting measures**



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## 5.1 Extinguishing media

Suitable extinguishing media : Use a suitable extinguishing media for the surrounding fire. In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Unsuitable extinguishing media : None known

## 5.2 Special hazards arising from the substrate or mixture

Fire hazard : Carbon oxides; Burning produces obnoxious and toxic fumes.

## 5.3 Advice for firefighters

Protection during firefighting : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## ➤ Section 6.0 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8

Emergency procedures : Evacuate unnecessary and unprotected personnel.

#### 6.1.2 For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip clean-up crew with proper protection. Use protective clothing, dust mask, and eye protection. For further information refer to section 8: "Exposure controls/personal protection".



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**6.2 Environmental precautions** : Prevent entry of product into sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3 Methods and material for contamination and cleaning up**

For containment : Prevent migration and entry into sewers or streams  
Methods for cleaning up : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections:**

See Heading 8. Exposure controls and personal protection

➤ **Section 7.0 Handling and storage**

**7.1 Precautions for safe handling**

Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Avoid release to the environment.

**7.2 Hygiene Measures**

Wash contaminated clothing before reuse. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not ingest. Workers should wash hands and face before eating, drinking and smoking.

**7.3 Conditions for safe storage, including any incompatibilities:**

Storage conditions : Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Incompatible materials : Not known

Storage area : Material should be stored in well protected dry place, in its original packing.

**7.4 Specific end uses**

See section 1.2

➤ **Section 8.0 Exposure controls and personal protection**



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### 8.1 Control parameters

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants

Product dust generated through grinding, sanding or machining may cause irritation to the mucous membrane, eyes, skin and respiratory organs. The limits of dust concentration (mg/m<sup>3</sup>) at the work-place have to be considered.

The general dust limit according to the TRGS 900, for dust which does not exhibit any mutagenic, carcinogenic, fibrogenic, allergising or toxic effect applies:

The OEL value for A dust (alveolar dust fraction) is 1.25 mg/m<sup>3</sup>

The OEL value for E dust (inhalable dust fraction) is 10 mg/m<sup>3</sup>

### 8.2 Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Use protective clothing / face shield if necessary.  
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Nitrile rubber gloves

Eye protection : Close-fitting protective goggles

Skin and body protection : Wear suitable protective clothing. After work ensure that skin is cleaned and hand care products are used.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## ➤ Section 9.0 Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

	Part 1	Part 2
Appearance	Red/Blue/Grey Paste	Yellow liquid
Surface Finish	-	-
Condition	Viscous paste	liquid



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Odour	Mild Epoxy	Mild Epoxy
Boiling Point	Not Applicable	247°C
Freezing point	Not Applicable	10°C
Flash Point	252 °C	112°C
Ignition point	Non Flammable	380°C
Self Igniting	Not self Igniting	Not self Igniting
Density	2.45 g/cc	1.1 g/cc
Solubility in water	Non soluble	Non soluble
PH	Not Applicable	11.6
Vapour Pressure	Not Applicable	0.0157 hPa
Viscosity	>10,000 cps	2000 cps
Vapour Density	Not Applicable	Not Applicable
Partition Co-efficient	Not Applicable	Not Applicable
Explosive Properties	Not Applicable	Not Applicable
Oxidising Properties	Not Applicable	Not Applicable

## 9.2. Other information

No additional information available

## ➤ Section 10.0 Stability and reactivity

- |  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | : Not known   |
| <b>10.2 Chemical stability</b>                 | : Stable  |
| <b>10.3 Possibility of hazardous reactions</b> | : Not known   |
| <b>10.4 Conditions to avoid</b>                | : Avoid release to the environment.   |
| <b>10.5 Incompatible materials</b>             | : Strong acids, strong bases, strong oxidising agents.  |
| <b>10.6 Hazardous decomposition products</b>   | : None under normal conditions. In case of fire: carbon oxides; burning produces obnoxious and toxic fumes. |

## ➤ Section 11.0 Toxicological information

### 11.1 Information on the toxicological effects

#### 11.1.1 Acute toxicity

Acute Oral Toxicity (LD50/Rat): > 2,000 mg/kg  
Acute Dermal Toxicity (LD50/Rabbit): 20,000 mg/kg

#### 11.1.2 Skin corrosion/irritation

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg (OECD Guideline 402)





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The European Union (EU) has classified this substance as 'harmful'.

#### 11.1.3 Serious eye damage/irritation

Species: rabbit

Result: Risk of serious damage to eyes. Method: OECD Guideline 405

#### 11.1.4 Respiratory or skin sensitization

Assessment of sensitization: Sensitization after skin contact possible. Guinea pig maximization test

Species: guinea pig

Result: sensitizing

Method: OECD Guideline 406

#### 11.1.5 Germ cell mutagenicity

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals.

11.1.6 Carcinogenicity : Not Classified

11.1.7 Reproductive toxicity : Not Classified

11.1.8 Specific target organ toxicity (single exposure) : Not Classified

#### 11.1.9 Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

11.1.10 Aspiration hazard : Not Classified

11.1.11 Symptoms/injuries after inhalation : Not Classified

11.1.12 Symptoms/injuries after skin contact : May cause irritation

11.1.13 Symptoms/injuries after eye contact : May cause irritation

11.1.14 Symptoms/injuries after ingestion : Not Classified

### ➤ Section 12.0 Ecological information

If used properly, no environmental problems are anticipated. Do not empty the product or collected dust into ground water or drains.

#### 12.1 Toxicity

Material is moderately toxic to aquatic organisms on an acute basis (LC50 / EC50 between 1 and 10 mg/L in most sensitive species).

Toxicity to aquatic species occurs at concentrations greater than water solubility.



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Inhibitory concentration (IC<sub>50</sub>) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >100 mg/L.

- |   |   |
|---|---|
| <b>12.2 Persistence &amp; Degradability</b> | : Not readily biodegradable (OECD)  |
| <b>12.3 Bioaccumulative Potential</b>       | : Accumulation in organisms is not to be expected.  |
| <b>12.4 Mobility in soil</b>                | : The substance will not evaporate into the atmosphere from the water surface.<br>Adsorption to solid soil phase is not expected. |
| <b>12.5 PBT and vPvB assessment</b>         | : Product does not contain PBT or vPvB substances (see. REACH Annex XIII)   |
| <b>12.6 Other Adverse Effect</b>            |   |
| Effect on ozone layer                       | : Not known   |
| Effect on the global warming                | : No known effects from this product.   |
| GWP mix comment                             | : No known effects from this product.   |

➤ **Section 13.0 Disposal considerations**

**13.1 Waste treatment methods**

- |                                 |  |
|---------------------------------|--|
| Sewage disposal recommendations | : Do not dispose of waste into sewer   |
| Waste disposal recommendations  | : Unless contaminated in service, this product is neutral to the environment. Landfill dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials       | : Avoid release to the environment   |

➤ **Section 14.0 Transport information**

**No dangerous goods as defined by ADR/RID/ADN/GGVSEB, ICAO/IATA, IMDG, USDOT**

- |  |  |
|--|--|
| <b>14.1 UN number</b>  | : 3082   |
| <b>14.2 UN proper shipping name</b>  | : Not applicable                                       |
| <b>14.3 Transport hazard class(es)</b>   | : Not applicable                                       |
| <b>14.4 Packing Group</b>  | : Not applicable                                       |
| <b>14.5 Environmental Hazards</b>  | : Environmentally hazardous substances, liquid, n.o.s. |
| <b>14.6 Special Precautions for the user</b>                                   | : See section 7 and 8                                  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | : Not applicable                                       |



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➤ **Section 15.0 Regulatory information**

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

**OSHA HAZARD COMMUNICATION STANDARD:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.

**SARA HAZARD CATEGORY:**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard

**TSCA, US :**

Released / listed

**HMIS III rating:**

Health: 3 Flammability: 1 Physical hazard: 0

**EU Classification:**

Categories of Danger: Harmful, Irritant, Mutagenic:Category 3, Carcinogenic:Category 1/2, Dangerous for the environment, Sensitizing (Contact with skin)

Indication(s) of Danger: Toxic

**EU R phrases:**

R20 Harmful by inhalation. R37/38 Irritating to respiratory system and skin. R43 May cause sensitization by skin contact. R45 May cause cancer. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R68 Possible risks of irreversible effects.

**EU S phrases:**

S24 Avoid contact with skin. S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53 Avoid exposure -obtain special instructions before use. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Water hazard classification (Germany):**

WGK 3: Severe hazard to waters (VwVwS)

**15.2.: Chemical safety assessment**

A chemical safety assessment of the product or its components is not available.



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➤ **Section 16.0 Other information**

**16.1.: Abbreviations and acronyms**

REACH: Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals.

TWA: Time Weighted Average;

OEL: Occupational exposure limit;

ACGIH: American Conference of Governmental Industrial Hygienists;

OSHA: Occupational Safety and Health Administration;

CAS No. : Chemical Abstract Service Registration Number;

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: The Globally Harmonized System of Classification and labelling;

IATA: International Air Transport Association;

DOT: Department Of Transport;

MARPOL: The International Convention for Prevention of Marine Pollution For Ships

IMDG: International Maritime Dangerous Goods;

RID: Regulations concerning the International Transport of Dangerous Goods by Rail;

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road;

ICAO: International Civil Aviation Organization

PBT: Persistent, bioaccumulative and toxic substances

vPvB: Very persistent and very bioaccumulative substances

Prepared by Jyoti Ceramic Industries In-House R&D Unit

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This SDS covers all products under the name of Alumacoat-Br. The information is based on the current state of our knowledge and relates to the product in its condition as applied. However, no guarantee, warranty or assurance is accepted either explicitly or implicitly for the accuracy, reliability and/or completeness of this information.

We expressly call on the person receiving this information to check on the suitability and completeness of this information for their particular application.