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Cod/ Mã TLAT
Edition/ BHSĐ 02nd
Valid/Ngày ban hành Mar 01st, 2024

MATERIAL SAFETY DATA SHEET (MSDS)

Compliant with circular 32/2017/TT-BCT

SECTION 01: PRODUCT AND COMPANY IDENTIFICATION

- **Product name** : Epoxy – Polyester Smooth Glossy White Powder Coating
 - **Product code** : M3003A-ROHS (M SERIES)
 - **Product type** : Powder
- Relevant identified uses of the substance or mixture and uses advised against:**
Paint or paint related material
- **Manufacturer** : MAX POWDER COATINGS (VIET NAM)
Lot O11A Hai Son IND Park, Long An, Vietnam 700000. Tel: 008428.6686.6688

SECTION 02: COMPOSITION/ INGREDIENTS

% by weight	CAS No.	Ingredient	Unit	Vapor
60	28064-14-4	Epoxy resin		No
30	7727-43-7	Barium Sulphate OSHA PEL	10 mg/m ³	No
10	13463-67-7	Titanium Dioxide OSHA PEL	5 mg/m ³	No

The material density shown in the table above may vary by product batch and values are approximate only. The product does not contain any other raw material ingredients that, within the scope of our understanding, are classified in the group of materials that affect health to be shown in this report.

SECTION 03: HAZARDOUS IDENTIFICATION

ROUTES OF EXPOSURES:

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
GHS label elements
Hazard pictograms:



EFFECTS OF OVEREXPOSURE :

EYES: Irritation.
SKIN: Prolonged or repeated exposure to dust may cause irritation.
INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized

SECTION 04: FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and shoes. In the the events of any complaints or symptoms, avoid further exposure. Wash clothing before reuse.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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. In case of inhalation of decomposition products in fire, symptoms my be delayed. The exposed person my need to be kept under medical surveillance for 48 hours.

INGESTION: Do not induce vomiting unless directed to do so by medical personel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Wash out mouth with water, remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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

SECTION 05: FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable **FLAMMABILITY CLASSIFICATION:** Not Applicable

EXTINGUISHING MEDIA Carbon Dioxide, Dry Chemical Powder, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust at sufficient concentrations can form explosive mixtures with air.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus (SCBA) with a full face-piece operated should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: In case of contamination of waterways or sewer systems, advise local emergency services immediately. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breath dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Methods and Materials for Containment and Clean-Up: In case of spills, wear protective clothing including eye and respiratory protection. Cover spill with a damp absorbent (sand, soil or similar material). Pick up the spill carefully by shovel, scoop or vacuum to avoid generating dust and place into properly labelled and sealed container for disposal.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

SECTION 07: HANDLING AND STORAGE

STORAGE CATEGORY Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Store in a cool, dry area out of direct sunlight. Eliminate all ignition sources, separate from oxidizing materials. Keep container tightly closed and sealed when not in use. Containers that have been opened must be carefully released and kept upright to prevent leakage. Transfer only to approved containers with complete and appropriate labeling. Do not store in unlabelled containers. Do not take internally. Keep out of the reach of children.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 08: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid
COLOR	Not available
ODOR	Not available
PH	Not available
SPECIFIC GRAVITY	1.2 ~1.4 cm ³
BOILING POINT	Not available
MELTING POINT	Not available
VOLATILE VOLUME	0%
EVAPORATION RATE	Not available
VAPOR DENSITY	Not available
AUTO-IGNITION TEMPERATURE	Not available
SOLUBILITY IN WATER	Not available
VISCOSITY	Kinematic (40°C (104°F)): >0.206 cm ² /s (>20.6cSt)
MOLECULAR WEIGHT	Not available

SECTION 09: STABILITY AND REACTIVITY

REACTIVITY No specific test data related to reactivity available for this product or its ingredients

CHEMICAL STABILITY — The product is stable

CONDITIONS TO AVOID High concentrations of airborne dust which may ignite explosively. Take precautionary measures against electrostatic discharges.

INCOMPATIBILITY Strong oxidizers, acids or alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION Will not occur

SECTION 10: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container.

SECTION 11: ECOLOGICAL INFORMATION

Aquatic toxicity No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

SECTION 12: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with eyewash facility and safety shower. Use only under a chemical fume hood.

Control parameters Occupational exposure limits (OSHA United States)

Ingredient name	CAS	Exposure limits
Titanium dioxide	13463-67-7	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: inhalable dust TWA: 4 mg/m ³ 8 hours. Form: respirable dust
Barium Sulfate	7727-43-7	ACGIH TLV (United States, 3,2019) TWA. 5mg/m ³ 8 hours. Form: Inhalable fraction

		NIOSH REL (United States, 10/2016). TWA 5mg/m ³ 10 hours. Respirable fraction TWA 10mg/m ³ 10 hours. Form: Total OSHA PEL (United States 5/2018). TWA: 5mg/ m ³ 8 hours. Form Respirable fraction TWA 15mg/m ³ 8 hours. Form Total dust
Talc	14807-96-6	NIOSH REL (United States, 10/2016). TWA. 2mg/m ³ 10 hours. Form Respirable fraction ACGIH TLV (United States, 3,2019) TWA. 2mg/m ³ 8 hours. Form: Inhalable fraction
Bisphenol A	80-05-7	OSHA PEL : N/A

Individual Protection for Industrial Use

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 13: TOXICOLOGICAL INFORMATION

RTECS#: CAS# 7631-86-9: VV7310000

LD50/LC50: CAS# 7631-86-9: Oral, rat:

LD50 = 3.160mg/kg; Oral, rat: LD50 = 7.500mg/kg

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	Inhalation	lungs

Aspiration hazard: Not available

Other: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 14: TRASPOT INFORMATION

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT)

Transport hazard class(es): Not regulated

UN NUMBER	N/A
ADR, IMDG, IATA	N/A
UN PROPER SHIPPING NAME	N/A
DOT, ADR, IMDG, IATA	N/A
TRANSPORT HAZARD CLASS (ES)	
CLASS	NOT REGULATED
PACKING GROUP	N/A
MARINE POLLUTANT	NO
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	N/A

SECTION 15: REGULATORY INFORMATION

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

SARA (Superfund Amendments and Reauthorization Act):

Section 355 (Extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): Bisphenol A Epoxy.

TSCA (Toxic Substances Control Act): All ingredients are listed

SARA (Superfund Amendments and Reauthorization Act):

Section 355 (Extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): 139-13-9 nitrilotriacetic acid . TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65: . Chemicals known to cause cancer: 139-13-9 nitrilotriacetic acid .

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenicity categories . EPA (Environmental Protection Agency) None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. . **Designation according to EC guidelines:** The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV) .

Code letter and hazard designation of product: Toxic .

Hazard-determining components of labeling: TGIC .

Risk phrases: May cause heritable genetic damage. Also harmful by inhalation and if swallowed. Risk of serious damage to eyes. May cause sensitization by skin contact. Also harmful: danger of serious damage to health by prolonged exposure if swallowed.

Safety phrases: Avoid exposure - obtain special instructions before use. Keep container in a well-ventilated place. Avoid contact with skin.

SECTION 16: OTHER INFORMATION

As the specific conditions of use of the product are outside the supplier's control, the user is always responsible for ensuring that the requirements of relevant legislation are complied with.

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

Notice to reader

It is recommended that each customer or recipient of this Material Safety Data Sheet (MSDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product and should not use the product for any purpose other than the purpose shown in the applicable section of this MSDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific MSDS, the manufacture can not be responsible for MSDSs obtained from any other source.