

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

A. Product Name:	EP-1702
B. Version (Date) :	3 (July 01, 2019)
C. Chemical identification:	SATURATED CARBOXYLATED POLYESTER RESIN
D. Intended/Recommended Use:	Powder Coating
E. Contact Information:	
■ Company name	ZheJiang GuangHua Technology Co., Ltd
■ Address	No.3 Huanyuan East Road, Yanguan Town, Haining, Zhengjiang, China
■ Telephone	86-573-87771666
■ Fax	86-573-87771222
■ Emergency call	86-573-87771199
F. Department:	R & D

**2. HAZARD IDENTIFICATION**

<b>2.1 Classification of the substance or mixture</b>	
Product Definition	Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Not classified The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
<b>2.2 Label elements</b>	
Signal Word	No signal word
Hazard Statements	No known significant effects or critical hazards
Supplemental label elements	Safety data sheet available on request.
<b>Precautionary statements</b>	
- Prevention	Not applicable
- Response	Not applicable
- Storage	Not applicable
- Disposal	Not applicable
Hazardous ingredients	
<b>2.3 Other hazards</b>	
Other hazards which do not result in classification	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

3.1 Substances / 3.2 Mixtures	Mixture
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

**4. FIRST AID PROCEDURES**

<b>4.1 Description of first aid measures</b>	
Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
<b>Potential acute health effects</b>	
<b>Eye contact:</b>	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
<b>Inhalation :</b>	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
<b>Skin contact:</b>	No known significant effects or critical hazards.
<b>Ingestion:</b>	No known significant effects or critical hazards.
<b>Over-exposure signs/symptoms</b>	
<b>Eye contact:</b>	Adverse symptoms may include the following: irritation redness
<b>Inhalation :</b>	Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Skin contact:</b>	No specific data.
<b>Ingestion:</b>	No specific data.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
<b>Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	No specific treatment.
<b>5. FIRE FIGHTING PROCEDURES</b>	
<b>5.1 Extinguishing media</b>	
<b>Suitable</b>	Use dry chemical powder or CO <sub>2</sub> .
<b>Not suitable</b>	None known.
<b>5.2 Special hazards arising from the substance or mixture</b>	
<b>Hazards from the substance or mixture</b>	No specific fire or explosion hazard.
<b>Hazardous combustion products</b>	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids, phosphorous oxides, hydrogen bromide, bromine, bromine compounds.
<b>5.3 Advice for firefighters</b>	
<b>Special protective actions for fire-fighters</b>	Fight fire from protected location or maximum possible distance. Keep the area surrounding the fire cool.
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents.
<b>Additional information</b>	Fine dust clouds may form explosive mixtures with air.
<b>6. ACCIDENTAL RELEASE PROCEDURES</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

<b>6.3 Methods and material for containment and cleaning up</b>	
<b>Small spill</b>	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
<b>6.4 Reference to other sections</b>	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
<b>7. STORAGE AND HANDLING</b>	
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).	
<b>7.1 Precautions for safe handling</b>	
<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container
<b>Advice on general occupational hygiene</b>	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. See also Section 8 for additional information on hygiene measures.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Do not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight. Keep away from heat and direct sunlight.
<b>7.3 Specific end use(s)</b>	
<b>Recommendations</b>	Not available.
<b>Industrial sector specific solutions</b>	Not available.
<b>Remarks</b>	Prevent formation of dust clouds. Earth connection against static electricity.
<b>8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION</b>	
The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.	
<b>8.1 Control parameters</b>	

Occupational exposure limits			
Product/ingredient name	Exposure limit values		
No exposure limit value known.			
<b>Recommended monitoring procedures</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689(Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
<b>DNELs/DMELs</b>			
<b>No DNELs/DMELs available.</b>			
<b>PNECs</b>			
<b>No PNECs available</b>			
<b>8.2 Exposure controls</b>			
<b>Appropriate engineering controls</b>	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		
<b>Individual protection measures</b>			
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
<b>Eye/face protection</b>	Safety glasses with side shields.		
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.		
<b>Skin and body</b>	Working clothes.		
<b>Respiratory protection</b>	Wear dust protection mask P2.		
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
<b>Remarks</b>	All chemical protective gloves are suitable to prevent contact with the skin. The choice of gloves should be aimed at physical protection of the hands.		
<b>Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation.</b>			
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>A. Color</b>	pale	<b>K. Saturation In Air(% by Vol)</b>	Not available
<b>B. Appearance</b>	flakes	<b>L. Evaporation Rate</b>	Not available
<b>C. Odor</b>	odorless	<b>M. Solubility In Water</b>	Not available
<b>D. Boiling Point</b>	Not available	<b>N. Volatile Organic Content</b>	< 1 %
<b>E. Melting Point</b>	Not applicable	<b>O. Flash Point</b>	> 200 °C(Cleveland Open Cup)
<b>F. Vapor Pressure</b>	Not applicable	<b>P. Flammable Limits(% by Vol)</b>	Not available
<b>G. Specific Gravity/Density</b>	1.2g/cm <sup>3</sup> @ 20°C	<b>Q. Auto-ignition temperature</b>	> 300 °C(VDI Guideline 2263)
<b>H. Vapour density</b>	Not available	<b>R. Decomposition Temperature</b>	Not available

<b>I. Percent Volatile(% by wt.)</b>	Not available	<b>S. Partition coefficient</b>	Not available
<b>J. PH</b>	Not available		
<b>10. STABILITY AND REACTIVITY</b>			
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	The product is stable. Stable under recommended storage and handling conditions (see Section 7).		
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	Keep away from moisture.		
10.5 Incompatible materials	No specific data.		
10.6 Hazardous decomposition products	No specific data.		
<b>11. TOXICOLOGICAL INFORMATION</b>			
<b>11.1 Information on toxicological effects</b>			
<b>Acute toxicity</b>			
<b>Conclusion/Summary</b>	Not available.		
<b>Acute toxicity estimates</b>			
Route	ATE value		
Oral	177777.1 mg/kg		
Irritation/Corrosion			
<b>Conclusion/Summary</b>			
<b>Eyes</b>	Not available.		
<b>Skin</b>	Not available.		
<b>Respiratory</b>	Not available.		
<b>Sensitisation</b>			
<b>Conclusion/Summary</b>			
<b>Skin</b>	Not available.		
<b>Respiratory</b>	Not available.		
<b>Mutagenicity</b>			
<b>Conclusion/Summary</b>	Not available.		
<b>Carcinogenicity</b>			
<b>Conclusion/Summary</b>	Not available.		
<b>Reproductive toxicity</b>			
<b>Conclusion/Summary</b>	Not available.		
<b>Teratogenicity</b>			
<b>Conclusion/Summary</b>	Not available		
<b>Specific target organ toxicity (single exposure)</b>			
<b>Specific target organ toxicity (repeated exposure)</b>	Not available.		
<b>Aspiration hazard</b>	Not available.		
<b>Potential acute health effects</b>			
Eye contact	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.		
Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.		
Skin contact	No known significant effects or critical hazards.		
Ingestion	No known significant effects or critical hazards.		

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>				
Eye contact	Adverse symptoms may include the following: irritation redness			
Inhalation	Adverse symptoms may include the following: respiratory tract irritation Coughing			
Skin contact	No specific data.			
Ingestion	No specific data.			
<b>Potential chronic health effects</b>				
Product/ingredient name	Result	Species	Dose	Exposure
Not available				
Conclusion/Summary	Not available.			
General	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.			
Carcinogenicity	No known significant effects or critical hazards.			
Mutagenicity	No known significant effects or critical hazards.			
Teratogenicity	No known significant effects or critical hazards.			
Developmental effects	No known significant effects or critical hazards.			
Fertility effects	No known significant effects or critical hazards.			
Classification				
<b>12. ECOLOGICAL INFORMATION</b>				
<b>12.1 Toxicity</b>				
Conclusion/Summary	Not available.			
<b>12.2 Persistence and degradability</b>				
Conclusion/Summary	Not available.			
<b>12.3 Bioaccumulative potential</b>				
<b>12.4 Mobility in soil</b>				
Soil/water partition coefficient (KOC)	Not available.			
Mobility	Not available.			
<b>12.5 Results of PBT and vPvB assessment</b>				
PBT	Not applicable.			
vPvB	Not applicable.			
12.6 Other adverse effects	No known significant effects or critical hazards.			
<b>13. DISPOSAL CONSIDERATIONS</b>				
The information in this section contains generic advice and guidance. Reference number: 2008/98/EC.				
<b>13.1 Waste treatment methods</b>				
<b>Product</b>				
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.			
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.			
<b>Packaging</b>				
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.			
Special precautions	This material and its container must be disposed of in a safe way.			

Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14. TRANSPORT REGULATIONS**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No

**14.6 Special precautions for user**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not available.

**15. REGULATORY INFORMATION**

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**National regulations**

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Ingredient name	List name	Status
Not listed.		

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Ingredient name	Status
Not listed.	

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Ingredient name	List name	Status
Not listed.		

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Ingredient name	List name	Status
Not listed.		

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Ingredient name	List name	Status
Not listed.		

Not listed.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

<b>Remarks</b>	Note: see section 8 for personal protective equipment and section 13 for waste disposal.
<b>16. OTHER INFORMATION</b>	
<b>Full text of abbreviated H statements</b>	
Not applicable	
<b>Full text of classifications [CLP/GHS]</b>	
Not applicable	
<b>Abbreviations and acronyms</b>	<p>ATE = Acute Toxicity Estimate            CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]            DMEL = Derived Minimal Effect Level            DNEL = Derived No Effect Level            EUH statement = CLP-specific Hazard statement            PBT = Persistent, Bioaccumulative and Toxic            PNEC = Predicted No Effect Concentration            RRN = REACH Registration Number            vPvB = Very Persistent and Very Bioaccumulative</p>
<b>Notice to reader</b>	<p>The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.</p> <p>The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.</p>