

MATERIAL SAFETY DATA SHEET

MSDS Name: Polyester Putty (RAP-36)

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SECTION 1 PRODUCTION AND COMPANY IDENTIFICATION

Product Identification:

Trade Name: Polyester Putty(RAP-36)

Manufacturer / Supplier Identification:

- Manufacturer/ Supplier: Guangzhou Rapicoat Refinish Technology Co., Ltd. Address: Room 1907, Building #5, No. 2, Kexing Road, Baiyun District, Guangzhou, China

Tel: 020-36298250

Fax: 020-36298250

Enforcement Date: 2009-01-21

For emergencies (abroad), call: 86-532-3889090

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

2. Chemical ingredients: Mixture of unsaturated resin, filler and Styrene

<u>Harmful composition</u>	<u>CAS NO.</u>	<u>Weight %</u>	<u>Category</u>
Styrene	100-42-5	18.5	R38, 20, 37

R20- Harmful by inhalation

R38- Irritating to eyes and skin

R20/21-Harmful by inhalation and skin contact

R36/37- Irritating to eyes, respiratory system

R36/37/38- Irritating to eyes, respiratory system and skin

R37- Irritating to respiratory system

SECTION 3 HAZARDS IDENTIFICATION

Potential Health Effects:

Emergency Overview:

Warning: Class 3.3 Flammable-Irritating-Harmful-Harmful to environment-Sensitization-Hazard.

Uniform standards for drugs and toxins cataloging(SUSDP): None

Special Hazard: Unknown.

SECTION 4 FIRST AID MEASURE

- General Information:

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Get medical aid immediately if symptoms persist or appear other doubts; Do not let unconscious person swallow anything.

- Inhalation:

Remove from exposure and move to fresh air immediately. keep victim warm and resting. If not breathing or breathing difficult, give artificial respiration. If victim is unconscious, keep lie on side and get medical aid.

- Skin:

Prohibiting the use of solvent and thinner, Immediately flush skin with soap and plenty of water or certified skin cleaner for a long time.

- Eye:

Remove contact lenses, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

- Ingestion:

Get medical aid immediately if accidentally swallowed. Keep rest and non-emetic.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable: Use dry chemical, CO₂, water spray (fog) or foam

Not suitable: Do not use water jet.

Special hazards from the product itself, side products and gas by combustion.

Decomposition products may include the following materials: carbon oxides

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

Other advice: to cool a closed container in the fire by fog attack.

SECTION 6 ACCIDENTAL RELEASE MEASURES

-Personal protection:

Keep away from ignition source, use proper personal protective equipment as indicated in Section 7 and 8. keep ventilation and refuse vapor contact.

-Environmental protection:

Discharging is prohibited, Inform local government according to regulations if local river, pool and waste water are contaminated.

-Spills/Leaks:

Absorb spill or collect leaks with inert material (e.g. vermiculite, sand or earth, kieselguhr), then place in suitable container, disposal in accordance with local regulations. avoid using solvent.

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Part 7 Handling and storage

Handling precautions

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. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). Use only with adequate ventilation. Wear appropriate respirator when ventilations inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep away from combustible material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Precautions to prevent igniting and blast

Steam of solvent is heavier than air, thus could spread over the floor. The steam and the air together could form an explosive mixture.

Precautions for storage:

Requirements for storage area and container:

Keep the container hermetically sealed. Never clear up the container with pressure. Smoking Strictly Prohibited. People are not allowed to enter without permission. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Keep it far from an oxidizer, strong acid or alkaline

Materials have to stay in the container. Follow the safety measures. Stay far away from heat source and avoid strong sunlight. Keep away from source ignition.

SECTION 8 EXPOSURE CONTROL, PERSONAL PROTECTION

Exposure measures:

Keep ventilation for occupational staff, or wear appropriate respirator when it is necessary.

- Respiration protection

When workers face the concentration which is higher than exposure limits, they must use the appropriate and reliable respirator.

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- Eye protection

Wear protective glasses to prevent solvent splash

- Skin protection

Personnel should wear an antistatic protective clothing or high temperature protective clothing made of man-made fibers.

- Protective measures / health measures

Clean the skin with soap and water or an approved skin cleanser thoroughly. Avoid the use of organic solvents

National Occupation Exposure Limit

Work security: Not available for putty

Styrene: Work security TWA = 100 ppm; STEL =

150 ppm; Remarks:

TWA –Time-Weighted Average; STEL–Short Term Exposure Limit; AEL–Acceptable Exposure Limit

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical state:	Paste
	Color:	Gray
	Odor:	Solvent-like odor
PH: (°C)	Not applicable	
Flash Point:	34°C	test in open cup
Flash Point	31.11°C	test in open cup
Explosion:	Not-applicable	
Autoignition Temperature:	490 °C	
Relative Density : (20 °C)	From 2.2 kg/l to2.3 kg/l	
Solubility in water (°C)	Insoluble g/l	
Viscosity: (23°C)	Viscous paste	
Explosion Limits:	Not-applicable	

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:

Stable under recommended storage conditions.(See Section 7)

Conditions to Avoid:

Avoid exothermic reaction, away from oxidizing agents, strong base and strong acid, etc.

Hazardous Decomposition products:

Exposure to high temperature may produce hazardous products: Carbon Oxide Carbon dioxide, smoke, nitrogen oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

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It is harmful to the health when one is in more than occupational exposure limits described in the component solvent vapor concentrations, such as irritating to mucosa and respiratory system, as well as adverse effects on kidney, liver and central nervous system. Signs and symptoms include headache, dizziness, fatigue, weakness, drowsiness, etc., in extreme cases coma.

Acute toxicity:

No data on the product itself.

Local effects:

Repeated or prolonged contact with skin may cause lipa loss, lead to non-allergic contact dermatitis, or absorbed through skin. Liquid splashed into the eyes can cause irritation and reversible damage.

SECTION 12 ECOLOGICAL INFORMATION

Ecological impact: not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Suggestion: empty containers should be cracked and or recycled for use. The container which is not completely empty is hazardous waste.

SECTION 14 TRANSPORT INFORMATION

Inland Transport:

1. Classified as Class 5.2 Organic peroxides in Name List of Dangerous Goods (GB12268-90);
2. Regulation of Automobile Transport of Dangerous Goods (JT3130-88) has made specific provisions on its

Road Transport.

3. Rule of Rail Transport of Dangerous Goods (Rail transport [1995] No. 104) has made specific provisions on its Rail Transport.
4. Regulation of Waterway Transport of Dangerous Goods (November 4, 1996 Traffic Order No. 10 issued in 1996) has made specific provisions on its Waterway Transport.
5. Dangerous Goods Transport Regulations of Chinese Civil Aviation (February 27, 1996 CAAC Order No. 48 setting), has made specific provisions on its Air Transport.

International Transport: UN No.: 1263

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Road, rail, sea and air transportation are available only in accordance with road and rail transport of dangerous goods (classification / packaging and labeling).

Road/rail transport

Environmental guidance (EPG) 3C1
Dangerous chemical 3[Y] E
Class: 3 Item: 5 (b) Dangerous Label: 3
Emergency for transport accident: 30G80 Hi/UN No.:1263
Shipping Name: Automotive Refinish

International Civil Aviation Organization (ICAO)

UN/ID Code: 1263 Class:3 sub risk
Packaging: II Dangerous Label: Inflammable Liquid
Shipping Name: Automotive Refinish

International Marine Organization (IMO)

Class: 3.2 IMDG Page: 3268 sub risk
Packaging: II Dangerous Label: Inflammable Liquid
EMS: F-E,S-E MFAF: 310
Shipping Name: Automotive Refinish

SECTION 15 REGULATORY INFORMATION

Domestic Regulations:

Name List of Dangerous Goods (GB12268-90),
Regulation of Automobile Transport of Dangerous Goods (JT3130-88).
Rule of Rail Transport of Dangerous Goods (Rail transport [1995] No. 104).
Regulation of Waterway Transport of Dangerous Goods (November 4 1996 Ministry of Communication Order No. 10 issued in 1996).
Dangerous Goods Transport Regulations of Chinese Civil Aviation (February 27th, 1996 CAAC Order No. 48 setting).

International Regulations:

Hazard Symbols: Xn-Harmful F- Highly flammable
Content: Not applicable
Risk Phrases:
R11 Highly flammable.
R20/21 Harmful by inhalation and in contact with skin

Safety Phrases:

S23 Do not breathe gas/ fumes/ vapor/spray
S38 In case of insufficient ventilation, wear suitable respiratory equipment
S16 Keep away from sources of ignition- No-smoking
Containers with 5L min. volume: S33 Take precautionary measures against static

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discharges.

S29 Do not empty into drains.

SECTION 16 ADDITIONAL INFORMATION

1. Reference: Chemical Product Database of Guangzhou Strong Chemical Co., Ltd.
2. Creation Time 2009-01-21
3. Creation Department: Automotive Refinish Division of Performance Coatings, Guangzhou Strong Chemical Co., Ltd.
4. Data Reviewed: by Automotive Refinish Division of Performance Coatings, Guangzhou Strong Chemical Co., Ltd.
5. Other Information:
Read all labels and safety data sheets when used in the mixture.
Proposed uses: Automotive coating is for professional use only.

The information above is believed to be accurate and satisfied with European and National law requirements based on our current knowledge. However, we make no warranty of availability for any conditions beyond our knowledge and control, and we assume no liability resulting from other use beyond above unless special written permission. Users should make their own responsibility to take necessary measures for laws and rules purposes. In no way shall the company be liable for any guarantee and specifications because of information above just giving to guide the safety operation, use, processing, storage, transportation, disposal of waste and leakage, etc.. Related information is only for specific substance specified, for such material used in combination with any other substance, or in any process using is invalid, unless otherwise stated in the description.