

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Resysta Material
Material Classification : Fibre Polymer Composites.
Recommended Use : For industrial use only.
Commercial Code : 8003TR-PO-S, 8003TR-PO-IM, 8003TR-PO-FR, 8003TR-PE-S, 8003TR-PE-IM,
8003TR-PE-FR
Manufacturer : Resysta International GmbH (WPM)
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2. HAZARDS IDENTIFICATION

Major health hazard : No significant target effects reported.
Skin contact : Non irritation to skin, non absorbed.
Eye contact : May cause irritation of eye.
Inhalation : May cause irritation to mucous membranes and respiratory tract.
Ingestion : No immediate known harmful effects but see a physician is required.
Environmental : Spillages or uncontrolled discharges into watercourses must be alerted
to the appropriate regulatory body.

3. COMPOSITION/INFORMATION ON INGREDIENTS

These products consist of fibre polymer composites with none hazardous components and may have trace amount of residual monomers and stabilizers (see Section 8)

Material/Components	CAS#	EINES#	WT.%	Hazard Symbol; Risk Phrases
Poly Vinyl Chloride	9002-86-2	208-750-2	40 ~ 64	N/A
Trade Secret Fibre	Proprietary		32 ~ 40	
Calcium Carbonate	471-34-1	207-439-9	4 ~ 20	

4. FIRST AID MEASURES

General information : Seek medical treatment.
After skin contact : Immediately wash with water and soap and rinse thoroughly.
After eye contact : Rinse opened eye for several minutes under running water.
Seek medical treatment if irritation develop.
After inhalation : Remove from exposure. Get medical help if irritation persists.
After ingestion : May cause choking if swallowed, if uncomfortable, seek medical assistance.

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5. FIRE FIGHTING MEASURES

Suitable extinguishing media	: Carbon Dioxide, extinguishing powder or water spray. Fight larger fire with fresh water spray or alcohol resistant foam.
Combustion Hazards	: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride & other organic vapour.
Protective Equipment	: Normal fire fighting equipment with appropriate respirator for CO & CO ₂ .
Special fire fighting procedures	: Evacuate all personnel from danger area. Fire fighter and other exposed to products of combustion should wear full protective clothing including self contained breathing apparatus.
Unusual fire & explosion hazards	: This compound has no unusual fire or explosion hazards.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Not required.
Environment precautions	: Do not allow to enter sewers/surface or ground water.
Process for cleaning & take up	: Remove mechanically.

7. HANDLING AND STORAGE

Handling	: Avoid eye contact and inhalation of dust when machining.
Storage	: Keep away from heat, moisture & flames. Store in a cool, dry, well ventilated place, and out of direct sunlight or other U.V. Store away from foodstuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures	: Provide appropriate exhaust ventilation at machinery.
Respiratory protection	: Use NIOSH approved dust respirator as need.
Eye/Face protection	: Safety glasses with side-shields.
Hand protection	: Wear suitable protective gloves.
Additional protective measures	: Safety shoes recommended.
General hygiene considerations	: Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and end of workday.

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Exposure Limits :

Components	CAS No.	Wt. %	Exposure Limits In Air			
			OSHA-PEL		ACGIH-TLV	
			TWA	STEL	TWA	STEL
These products are mixture of fibre polymer composites. Exposure limits are for Particulates, not Otherwise Classified (PNOC)						
Polyvinyl Chloride	9002-86-2	40 ~ 64	5mg/m ³ (Respirable Dust)	None	5mg/m ³ (Respirable Dust)	None
Trade Secret Fibre	Proprietary	32 ~ 40				
Calcium Carbonate	471-34-1	4 ~ 20	15 mg/m ³ (Total Dust)		10mg/m ³ (Total Dust)	
The following impact modifiers, stabilizers, processing aids & colorants may be present in these products:						
Amorphous Silica	7631-86-9	13 -28	80 mg/m ³ (% SiO ₂)	None	10 mg/m ³	None
Crystalline Silica	14808-60-7		30 mg/m ³ (% SiO ₂ +2)	None	None	None
Respirable Dust	Mixture		10 mg/m ³ (% SiO ₂ +2)	None	0.05 mg/m ³	None
Potassium Oxide	12136-45-7		None	None	None	None
Octabzone	1843-05-6	0 - 1	None	None	1 mg/m ³	None
MMA-Acrylic Copolymer	Proprietary	0 - 15	None	None	None	None
Sodium bicarbonate	144-55-8	0 - 1	None	None	None	None
Aluminium Hydroxide	21645-51-2	0 - 20	5mg/m ³ (Respirable Dust)	None	10mg/m ³ (Total Dust)	None
			15 mg/m ³ (Total Dust)			None
Organotin	Proprietary	0 - 5	0.1mg/m ³	None	0.1mg/m ³	0.2mg/m ³
Chlorinated Polyethylene	64754-90-1	0 - 10	None	None	Particulates Not Otherwise Classified :10mg/m ³	None
Titanium Dioxide	13463-67-7	0 - 1	15 mg/m ³ (Total Dust)	None	10mg/m ³ (Total Dust)	None
Carbon Black	1333-86-4	0-1	3.5 mg/m ³	None	3.5 mg/m ³	None

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form	: Powder
Color	: Teak
Odor	: Odorless
Odor Threshold	: Odorless
pH	: Not applicable
Melting Point	: No test data available
Freezing Point	: Not applicable
Boiling Point (760 mmHg)	: Not applicable
Flash Point - Closed Cup	: Not applicable
Evaporation Rate	: Not applicable
Flammability (solid, gas)	: No
Flammable Limits In Air	Lower: Not applicable Upper: Not applicable
Vapor Pressure	: Not applicable
Vapor Density (air = 1)	: Not applicable
Bulk density	: 0.61 - 0.68 g/cm ³ . Estimated.
Solubility in water (by weight)	: Negligible
Auto ignition Temperature	: No test data available
Decomposition Temperature	: No test data available
Kinematic Viscosity	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Minimum Ignition Energy	: > 1000 mJ (Particle size < 90 μm)

10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable.
Hazardous	: Polymerization will not occur.
Conditions to Avoid	: Exposure to elevated temperatures can cause product to decompose.
Incompatible Materials	: None known.
Hazardous decomposition products	: May produce Carbon dioxide (CO ₂) and toxic Carbon monoxide (CO) when operation temperature is higher than 250°C.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs.

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12. ECOLOGICAL INFORMATION

Toxicity	: Not expected to be acutely toxic to aquatic organisms.
Persistence and Degradability	: No appreciable biodegradation is expected.
Bio accumulative potential	: No bio concentration is expected.
Mobility in soil	: In the terrestrial environment, material is expected to remain in the soil where it may be subject to wind dispersion., In the aquatic environment, material will sink and remain in the sediment.
PBT and vPvB assessment	: Not detected.
Other adverse effects	: No relevant data found.

13. DISPOSAL CONSIDERATIONS

Wastes can be landfilled. Dispose of in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

General transportation method can be used.

15. REGULATORY INFORMATION

This product meets the requirements of RoHS and REACH.

16. OTHER INFORMATION

MSDS Preparation Date: 12/12/2012 (DD/MM/YYYY)

DISCLAIMER: This Safety Data Sheet does not constitute a workplace risk assessment. The information provided in this MSDS is accurate to the best of our knowledge and is provided in good faith. No warranty is given with respect to its accuracy and/or reliability. The information relates only to the particular product and not to the product when used in combination with any other materials. It is the user's responsibility to take proper precautions when using this product and ensure its own compliance with applicable local, state and federal laws and regulations.
