SAFETY DATA SHEET	
This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No. 1907/2006.	



Resysta Floor Sealer RFS Component B (HAERTER) MSDS EU 01 / EN Version 1

Print Date 03.11.2010 Revision date 28-10-10

Trade name	:	Resysta Floor	Sealer F	RFS Compone	ent B (hardener)	
Recommended use	:	two compone	nt coatin	g hardener		
Company Telephone Telefax Emergency telephone nu E-mail address	: : mber : :	Resysta RTD +49 (0) 202-2 +49 (0) 202-2 +49 (0) 202-2 info@resysta	26688-0 26688-19 26688-0		udhuk Consulting Gmł	рН & Co. KG
HAZARDS IDENTIFICAT	ION					
Symbol(s) : Irritant						
Hazardous components : hydrophilic polyisocyanate isocyanic acid, hexamethy		lymers				
R-phrase(s) : MAY CAUSE SENSITIZA HARMFUL TO AQUATE				IG-TERM AI	DVERSE EFFECTS I	N THE AQUATIC
MAY CAUSE SENSITIZ	C ORGANISI	MS, MAY CAU	JSE LON		OVERSE EFFECTS I	N THE AQUATIC
MÂY CAUSE SENSITIZ, HARMFUL TO AQUATH ENVIRONMENT. P-phrase(s) : Contains isocyanates. See	C ORGANISI	MS, MAY CAU upplied by the r NGREDIENTS	JSE LON			
MÂY CAUSE SENSITIZ, HARMFUL TO AQUATH ENVIRONMENT. P-phrase(s) : Contains isocyanates. See COMPOSITION/INFORM Components isocyanic acid, hexamethylene ester,	C ORGANISI	MS, MAY CAU	JSE LON	urer.	OVERSE EFFECTS I Classification R43 R52/53	N THE AQUATIC Concentration >=25.00 - <50.009
MÂY CAUSE SENSITIZ, HARMFUL TO AQUATH ENVIRONMENT. P-phrase(s) : Contains isocyanates. See COMPOSITION/INFORM Components isocyanic acid,	C ORGANISI	MS, MAY CAU upplied by the r NGREDIENTS	JSE LON	urer.	Classification R43	Concentration
MAY CAUSE SENSITIZ, HARMFUL TO AQUATH ENVIRONMENT. P-phrase(s) : Contains isocyanates. See COMPOSITION/INFORM Components isocyanic acid, hexamethylene ester, polymers	C ORGANISI	MS, MAY CAU upplied by the r NGREDIENTS CAS-No. 28182-81-2 ot mentioned in tional threshold	DSD	Note	Classification R43 R52/53 R43 R52/53 amount of hazardous er 8.	Concentration >=25.00 - <50.009
MAY CAUSE SENSITIZ, HARMFUL TO AQUATH ENVIRONMENT. P-phrase(s) : Contains isocyanates. See COMPOSITION/INFORM Components socyanic acid, nexamethylene ester, polymers hydrophilic polyisocyanate <i>Producer declares that fo</i> <i>limits. For components w</i> If multiple components w	C ORGANISI	MS, MAY CAU upplied by the r NGREDIENTS CAS-No. 28182-81-2 ot mentioned in tional threshold	DSD	Note	Classification R43 R52/53 R43 R52/53 amount of hazardous er 8.	Concentration >=25.00 - <50.009
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	: Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.		
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery		
Ingestion	position and seek medical advice.If accidently swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.		
Burns	: If spills on clothing catch fire, wash with plenty of water. Remove loose clothing. Do not remove clothing that has melted to the skin.Obtain medical attention.		
IRE-FIGHTING MEASURES			
Specific hazards during fire fighting	: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.		
Special protective equipment	: In the event of fire, wear self-contained breathing apparatus.		
for fire-fighters Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.		
Extinguishing media which shall not be used for safety reasons	: Do NOT use water jet.		
ACCIDENTAL RELEASE MEAS	URES : Use personal protective equipment. Ventilate the area. Refer to protective		
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Advice on protection against fire and explosion	:	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Storage		
Requirements for storage areas and containers	:	Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 30°C (41 - 86 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).
Advice on common storage	:	Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components on the national list and/or the European TLV list (98/24/EC):

Components		CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
Personal protective equipment	nt		·		
General advice					
Respiratory protection	Thi feas lim sho is p 30 l	s should be ach sible" by the us its cannot be m uld be worn on ossible for the	nieved by a g se of local exl set, in excepti ly for a short isocyanate to lication. If dr	bod general naust ventil onal cases period of t remain un y flatting is	the occupational exposure limits. extraction and "if practically ation. If the occupational exposure suitable respiratory equipment ime. Under cool dry conditions, it reacted in the paint film for up to unavoidable air fed respiratory
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Hand protection	For prolonged or repeated contact use prot Barrier creams may help to protect the exp however not be applied once exposure has Skin should be washed after contact. Use chemical resistant gloves classified un gloves against chemicals and micro-organi	osed areas of skin, they should occurred. der Standard EN 374: Protective
	When prolonged or frequently repeated co protection class of 6 (breakthrough time gr to EN 374) is recommended. When only b with a protection class of 2 or higher (brea minutes according to EN 374) is recomme NOTICE: The selection of a specific glove duration of use in a workplace should also workplace factors such as, but not limited handled, physicalrequirements (cut/punctu protection), potential body reactions toglov instructions/specifications provided by the	eater than 480 minutes according rief contact is expected, a glove kthrough time greater than 30 nded. e for a particular application and take into account all relevant to: Other chemicals which may be re protection, dexterity, thermal vematerials, as wellas the
Eye protection Skin and body protection	Chemical resistant goggles must be worn. Personnel should wear protective clothing. contact. Working clothes must not consist dangerous melting behaviour in case of fir footwear.	of textiles, which show a
Additional advice		
Environmental protection	Refer to national regulations in chapter 15 protection.	for regulations on environmental

9. PHYSICAL AND CHEMICAL PROPERTIES

Conditions to avoid

Form	: liquid
Colour	: colourless
Odour	: characteristic
Flash point	: 65.0 °C
Autoignition temperature	:
5 .	Note: not applicable
Upper explosion limit	:
	Note: not applicable
Lower explosion limit	:
_	Note: not applicable
Density	: 1.1 g/cm3
Water solubility	: immiscible
рН	: not applicable
Viscosity, dynamic	: Note: no data available
ABILITY AND REACTIVITY	/

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sources of heat.

: Avoid temperatures above 60°C (140 F), direct sunlight and contact with



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Hazardous reactions	: Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid moisture. Amines and alcohols cause exothermic reactions. Preparation reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.
Hazardous decomposition products	 In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
11. TOXICOLOGICAL INFORMA	ΓΙΟΝ
Product information	: There is no data available for this product. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.
Acute oral toxicity	: May cause nausea, abdominal spasms and irritation of the mucous membranes.
Acute inhalation toxicity	 Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.
Skin irritation	 Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin.
Eye contact Further information	The liquid splashed in the eyes may cause irritation and reversible damage.There is no data available for this product.
Acute Toxicity Data for Comp	ponents
12. ECOLOGICAL INFORMATIO	N
Further information	: No data is available on the product itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See sections 3 and 15 for details. The product should not be allowed to enter drains, water courses or the soil.
13. DISPOSAL CONSIDERATION	IS
Product	: The product should not be allowed to enter drains, water courses or the soil. Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
14. TRANSPORT INFORMATION	
Transport within user's premises	s: always transport in closed containers that are upright, labelled and secure. Ensure that know what to do in the event of an accident or spillage.



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Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport:

Note

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with Directive 1999/45/EC.



Hazardous components which must be listed on the label:

- hydrophilic polyisocyanate
- isocyanic acid, hexamethylene ester, polymers

R-phrase(s)	: R43 R52/53	May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2	Keep out of the reach of children.
- ···	S46	If swallowed, seek medical advice immediately and show this container or label.
	\$36/37	Wear suitable protective clothing and gloves.
	S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
	S23	Do not breathe vapour.
P-phrase(s)	: Contains	isocyanates. See information supplied by the manufacturer.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

National legislation

Water contaminating class : W((Germany)

: WGK 1 slightly water endangering

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16. OTHER INFORMATION

Explanation of R-phrases mentioned in section 3

isocyanic acid, hexamethylene ester, polymers	R43 R52/53	May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
hydrophilic polyisocyanate	R43 R52/53	May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This Safety Data Sheet is based on the Safety Data Sheets obtained from the producer/manufacturer or/and internet databases and valid regulations considering hazardous substances/preparations.

Training advice:

Persons taking part in a turnover of hazardous products ought to be trained in product handling, safety and hygiene.

Version: 1

Revision date 14.10.2009

The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.