

AMERCOAT 352 GF RESIN

MSDS EU 01 / EN Version 1

Product information						
Trade name	:	AMERCOAT	5352 GF	RESIN		
Recommended use	:	coating				
Company	:	PPG Coatings Noordersinge B-2040 Borge	1 23	BVBA		
Telephone	:	+32 3 360647	70			
Telefax	:	+32 3 360643	35			
Emergency telephone numb	oer :	+31 20 40752	210			
E-mail address	:	PMC.Safety	@PPG.co	om		
Symbol(s) : Irritant Dangerous for the environn Hazardous components : epoxy phenol novolac resin	nent					
Irritant Dangerous for the environm Hazardous components :	nent A-(epichlorh exane	ıydrin) epoxy r	esin (nun	nber average mol	ecularweight ≤ 70	0)
Symbol(s) : Irritant Dangerous for the environm Hazardous components : epoxy phenol novolac resin reaction product: bisphenol-A 1,6-Bis(2,3-epoxypropoxy)he	nent A-(epichlorh exane ether ID SKIN. TION BY SI GANISMS, I	KIN CONTAC MAY CAUSE	T. LONG-T	ERM ADVERSI		
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reaction product: bisphenol-		25068-38-6	12	Xi; R36/38	>=10.00 - <25.00%
A-(epichlorhydrin) epoxy			2008	R43	
resin (number average				N; R51, R53	
molecularweight ≤ 700)				· · · · · · · · ·	
1,6-Bis(2,3-	240-260-4	16096-31-4		Xi; R36/38	>=2.50 - <10.00%
epoxypropoxy)hexane				R52/53	
				R43	
www.wedew.co.al.dialaridad		9072-62-2		V: D2C/29	>=1.00 - <2.50%
propylene glycol diglycidyl		9072-62-2		Xi; R36/38	>=1.00 - <2.50%
ether				R43	
				R52/53	
epoxy phenol novolac resin		28064-14-4		N; R51/53	>=25.00 - <50.00%
-F , F				R43	
				Xi; R36/38	
				7H, K50/50	

Producer declares that for R-phrases not mentioned in chapters 3, the entire amount of hazardous substances is below limits. For components with an occupational threshold limit value see chapter 8. The benzene content of this product is less than 0.1%. Nota P and H apply.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

4. FIRST AID MEASURES

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.
Skin contact	 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 position and seek medical advice.
Ingestion	: 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.

5. FIRE-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 for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.
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.
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6. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Try to prevent the material from entering drains or water ways. If the product **Environmental precautions** contaminates rivers and lakes or drains inform respective authorities. Methods for cleaning up Clean with detergents. Avoid solvents. Contain and collect spillage with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Additional advice Refer to section 15 for specific national regulation. 7. HANDLING AND STORAGE Handling Safe handling advice Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8. Advice on protection against Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure fire and explosion 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** Observe label precautions. Prevent unauthorized access. Containers which and containers 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). Keep away from oxidising agents and strongly acid or alkaline materials. Advice on common storage 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	
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Naphtha (petroleum), hydrodesulfur heavy	ized	64742-82-1	400		ESIG TWA	
Personal protective equipment						
General advice						
Respiratory protection	: When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikly to be sufficient to control particulates and solven vapour in all cases. In such circumstances they should wear a compressed air fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.				d air-	
Hand protection	: Fo Ba ho Sk Us glo Re M	or prolonged or re urrier creams may wever not be app in should be was se chemical resist oves against chen ecommended glov inimum breakthro	help to pr blied once e hed after c ant gloves nicals and ves: Viton bugh time:	otect the expo exposure has c ontact. classified und nicro-organis 480 min	osed areas of skin, they shoul occurred. ler Standard EN 374: Protect	ive
	pro to wi mi No du wo ha pro	betection class of (EN 374) is recont th a protection cl nutes according to DTICE: The select ration of use in a prkplace factors s ndled,physicalrect	6 (breakthr nmended. V ass of 2 or to EN 374) ction of a s workplace uch as, but quirements al body rea	ough time gre When only bri higher (break is recommen- pecific glove : should also t not limited to (cut/puncture ctions to glov	for a particular application and ake into account all relevant b: Other chemicals which ma protection, dexterity, therma ematerials, as wellas the	ling ve nd y be
Eye protection Skin and body protection	: Pe co da	ntact. Working cl	ear protect lothes mus	ive clothing. S t not consist o	Skin should be washed after f textiles, which show a Workers should wear antist	atic
Additional advice	10	Jiwear.				
Environmental protection		efer to national re otection.	gulations i	n chapter 15 f	or regulations on environment	ntal
Personal protection Protective equipment	: Еу	ve protection, safe	ety gloves a	and combi ma	sk P1A1	
Please contact your personal protec	ction eq	uipment supplier	for furthe	er advice		
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: viscous
Colour	: various
Odour	: characteristic
Flash point	: Noto: not ampliashla
Autoionition tomponoture	Note: not applicable
Autoignition temperature	: Note: no data available
Linn on ormalisation line:4	
Upper explosion limit	: 40.37 %(V)
	1,959.71 g/m3
Lower explosion limit	: 4.94 %(V)
Lower explosion mint	249.48 g/m^3
	247.46 g/m3
Density	: 1.54 g/cm3
Density	at 20 °C
Water solubility	: no data available
water solubility	
рН	: no data available
P	
Viscosity, dynamic	: 150,000 mPa.s
Flow time	: $>= 60 \text{ s}$
	Transversal section: 6 mm
	Method: ISO 2431 (EN 535) 6 mm CUP

10. STABILITY AND REACTIVITY	
Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.
Hazardous reactions	: Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
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 INFORMATION

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.	
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. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies. 	
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AFETY DATA SHEET his Safety Data Sheet is prepared in	accordance with Annex II to Regulation (EC) No. 1907/200	6. PPG Protective & Marine Coatings
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Eye contact Further information	 Irritating to eyes. Based on the properties of epoxy constituent(s) and data on similar preparations, this preparation may severe irritant. It contains epoxy based reactive dill severely irritating to eyes, mucous membrane and sensitisers. Repeated skin contact may lead to irrits sensitivity, possible with cross-sensitisation to othe exposure to doses of epoxy based reactive diluents dose has been shown to cause transient neurotoxic Prolonged exposure to high concentration may cau organs such as liver and kidney. 	be a skin sensitiser and a uents wich are moderate to skin and are strong ation and to hyper- er epoxies. Single oral at or close to the lethal effects in animals.
Acute Toxicity Data for Compo	nents	
ECOLOGICAL INFORMATION		
Further information	: No data is available on the product itself. The preparation of the Dangero 1999/45/EC and is classified for ecotoxicological product should not drains, water courses or the soil.	us Preparations Directive properties accordingly. See
DISPOSAL CONSIDERATION	 The product should not be allowed to enter drains, Disposal together with normal waste is not allowed according to local regulations. 	
Waste key for the unused product	 The European Waste Catalogue classification of th of as waste is: 	is product, when disposed
	08 01 11* Waste paint and varnish containing orga dangerous substances.	anic solvents or other
	If this product is fully cured or mixed with other w longer apply. If mixed with other wastes, the appro assigned. For further information contact your loca	opriate code should be
TRANSPORT INFORMATION		
	always transport in closed containers that are upright, labe know what to do in the event of an accident or spillage.	elled and secure. Ensure that
Transport to be in accordance with UN-Number	h ADR for road, IMDG for sea and IATA for air transport : 3082	:
Proper shipping name Class	: ENVIRONMENTALLY HAZARDOUS SUBSTA : 9	NCE, LIQUID, N.O.S.
Packing group (ADR)	: III	
Label	: 9 : ENVIRONMENTALLY HAZARDOUS SUBSTA	NCE LIQUID NOS
Proper shipping name (ADR) Technical name 1		11(CL, EIQUID, 11.0.5.
	 epoxy resin epoxy resin (Mw <= 700) 	

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Packing group (IMDG/IATA) Marine Pollutant (IMDG) Marine Pollutant component (IMDG) EmS (IMDG)	 III Marine Pollutant epoxy resin F-A, S-F
Limited quantity (ADR)	: Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG
Limited quantity (IMDG)	: Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG

15. REGULATORY INFORMATION

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





environment

Hazardous components which must be listed on the label:

- epoxy phenol novolac resin
- reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight \leq 700)
- 1,6-Bis(2,3-epoxypropoxy)hexane
- propylene glycol diglycidyl ether

R-phrase(s)	: R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S23 S36/37 S38	Do not breathe spray. Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable respiratory equipment.
	S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.
P-phrase(s)	: Contain	ns epoxy constituents. 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

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16. OTHER INFORMATION

This product contains a complex mixture of hydrocarbons. Detailed information can be obtained from the producer.

Explanation of R-phrases mentioned in section 3

Naphtha (petroleum), hydrodesulfurized heavy	R10 R51/53 R65 R66 R67	Flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecularweight \leq 700)	R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
1,6-Bis(2,3-epoxypropoxy)hexane	R43 R36/38 R52/53	May cause sensitization by skin contact. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
propylene glycol diglycidyl ether	R36/38 R43 R52/53	Irritating to eyes and skin. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
epoxy phenol novolac resin	R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic 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.

Drivers ought to be trained and obtain a certificate in accordance with the requirements of transport regulations (ADR).

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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.

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