

AMERCOAT 235 RESIN

MSDS EU 01 / EN Version 1

Print Date 6/4/2010 Revision date 28-05-09

		NCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product information		
Trade name	:	AMERCOAT 235 RESIN
Recommended use	:	coating
Company	:	PPG Coatings SPRL/BVBA Noordersingel 23 B-2040 Borgerhout
Telephone	:	+32 3 3606470
Telefax	:	+32 3 3606435
Emergency telephone number	:	+31 20 4075210
E-mail address	:	PMC.Safety@PPG.com
AZARDS IDENTIFICATION		
Symbol(s) : Irritant Dangerous for the environment		
Hazardous components :		

R-phrase(s):
FLAMMABLE.
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.
P-phrase(s):
Contains epoxy constituents. See information supplied by the manufacturer.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
xylene	215-535-7	1330-20-7	25th	Nota C	R10 Xn; R20/21 Xi; R38	>=1.00 - <2.50%
iso-butanol	201-148-0	78-83-1	25th		R67 R10 Xi; R37/38, R41	>=2.50 - <5.00%
			1/10			
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Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6		Nota H, Nota P	R10 N; R51/53 Xn; R65 Xi; R37 R66 R67	>=2.50 - <10.00%
mesitylene	203-604-4	108-67-8	29th		R10 Xi; R37 N; R51, R53	>=1.00 - <2.50%
reaction product: bisphenol- A-(epichlorhydrin) epoxy resin (number average molecularweight \leq 700)		25068-38-6	29th		Xi; R36/38 R43 N; R51, R53	>=10.00 - <25.00%
nonylphenol	246-672-0	25154-52-3	29th		Repr.Cat.3; R62 Repr.Cat.3; R63 Xn; R22 C; R34 N; R50, R53	>=0.10 - <0.25%
1,2,4-trimethylbenzene	202-436-9	95-63-6	24th		R10 Xn; R20 Xi; R36/37/38 N; R51, R53	>=2.50 - <10.00%
cumene	202-704-5	98-82-8	26th		R10 Xn; R65 Xi; R37 N; R51, R53	>=0.10 - <1.00%
reaction product, mixed diamid wax					R43 R53	>=0.10 - <1.00%

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 Eye contact Skin contact	 When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thing any set of the set of
Inhalation	 thinners. 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.
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SAFETY DATA SHEET This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No. 1907/2006. PPG Protective & Marine Coatings

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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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment. Ventilate the area. Refer to prote measures listed in sections 7 and 8. Wear respiratory protection. Bev vapours accumulating to form explosive concentrations. Vapours ca accumulate in low areas. Remove all sources of ignition.	ware of
Environmental precautions	: Try to prevent the material from entering drains or water ways. If the contaminates rivers and lakes or drains inform respective authorities	1
Methods for cleaning up	: Clean with detergents. Avoid solvents. Contain and collect spillage combustible absorbent material, (e.g. sand, earth, diatomaceous earth vermiculite) and place in container for disposal according to local / n regulations (see section 13).	h,
Additional advice	: Refer to section 15 for specific national regulation.	

7. HANDLING AND STORAGE

Handling	
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
fire and explosion	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	
	3/10
	5/10

рРG SAFETY DATA SHEET This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No. 1907/2006. PPG Protective & Marine Coatings AMERCOAT 235 RESIN MSDS EU 01 / EN Version 1 Print Date 6/4/2010 Revision date 28-05-09 Observe label precautions. Prevent unauthorized access. Containers which **Requirements for storage areas** 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Advice on common storage

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
xylene can be absorbed through skin	1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL
Solvent naphtha (petroleum), light arom.	64742-95-6	125		ESIG TWA
mesitylene	108-67-8	100	20	EU ELV TWA
1,2,4-trimethylbenzene	95-63-6	100	20	EU ELV TWA
cumene can be absorbed through skin	98-82-8	100 250	20 50	EU ELV TWA EU ELV STEL

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

section 15).

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 solvent vapour in all cases. In such circumstances they should wear a compressed airfed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Keep away from oxidising agents and strongly acid or alkaline materials.

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Hand protection	:	For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms.
		Recommended gloves: Nitrile rubber Minimum breakthrough time: 480 min
		The recommended gloves are based on most common solvent in this product.
		When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled,physicalrequirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glovematerials, as wellas the instructions/specifications provided by the glove supplier.
Eye protection Skin and body protection	:	Chemical resistant goggles must be worn. Personnel should wear protective clothing. Skin should be washed after contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic footwear.
Additional advice		
Environmental protection	:	Refer to national regulations in chapter 15 for regulations on environmental protection.
Personal protection Protective equipment	:	Eye protection, safety gloves and combi mask P1A1

Please contact your personal protection equipment supplier for further advice

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: viscous
Colour	: various
Odour	: mild aromatic
Flash point	: 39.0 °C
	Note: Calculated
Autoignition temperature	:
с г	Note: no data available
Upper explosion limit	: 8.75 %(V)
	395.14 g/m3
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	Lower explosion limit	:	1.01 %(V 46.51 g/m				
	Density	:	1.43 g/cm	13			
	Water solubility	:	at 20 °C not appli	cable			
	рН	:	no data av	vailable			
	Viscosity, dynamic	:	1,200 mP	a.s at 23 °C			
	Flow time	:		al section: 6 mm (SO 2431 (EN 535) 6 mm (CUP		
10.	STABILITY AND REAC	τινιτγ					
	Conditions to avoid	:		nperatures above 60°C (14	0 F), direct su	nlight and contact with	
	Hazardous reactions	:		t heat. by from oxidising agents, st in order to avoid exotherm		e and strongly acid	
	Hazardous decompositio products	on :	In case of Carbon di	fire hazardous decompositioxide (CO2), carbon mono ck smoke.	tion products i		
11.	TOXICOLOGICAL INFO Product information	RMATION :	The prepa Dangerou	to data available for this pr tration has been assessed for the Preparations Directive 19 ical hazards accordingly. S	ollowing the co 999/45/EC and	d classified for	
	Acute oral toxicity	:		e nausea, abdominal spasm			
	Acute inhalation toxicit	y :	Exposure occupatio mucous n kidney, li	to component solvent vap nal exposure limit may res nembrane irritation, respira ver and central nervous sys fatigue, muscular weakne	ult in adverse tory system ir stem. Symptor	ritation, adverse effects on ns and signs: headache,	
	Skin irritation	:	Repeated natural fa be absorb	or prolonged contact with	desiccation of ted skin conta	f the skin. The product may ct may lead to irritation	
	Eye contact Further information	:	Irritating There is r	to eyes. no data available for this pr	oduct.		
	Acute Toxicity Data for	Components					
	nonylphenol(25154-52-3))					
	Acute oral toxicity Acute inhalation toxici	ty	:	LD50: 1,620 mg/kg (rat) LC50: 2 mg/l (rat)			
	cumene(98-82-8)						
	Acute oral toxicity		:	LD50: 382 mg/kg (rat)			
				6/10			
				0/10			

MERCOAT 235 RESIN DDS EU 01 / EN Version 1 Print Date 6/4/2C Revision date 28-05- ECOLOGICAL INFORMATION Further information : 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. DISPOSAL CONSIDERATIONS 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. Waste key for the unused product : The European Waste Catalogue classification of this product, when disposed of as waste is: 08 01 12 Waste paint and varnish other than those mentioned in 08 01 11. If this product is fully cured or mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority Transport within user's premises: always transport in closed containers that are upright, labelled and secure. Ensure tha persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport: UN-Number : 1263 Proper shipping name Transport within man : 243 Proper shipping name : 3 PAINT Class Class : 3 Packing group : 111
Revision date 28-05- ECOLOGICAL INFORMATION Further information : 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. DISPOSAL CONSIDERATIONS 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. Waste key for the unused product : The European Waste Catalogue classification of this product, when disposed of as waste is: 08 01 12 Waste paint and varnish other than those mentioned in 08 01 11. If this product is fully cured or mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority TRANSPORT INFORMATION Transport within user's premises: always transport in closed containers that are upright, labelled and secure. Ensure tha persons transporting the product know what to do in the event of an accident or spillage. Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport: UN-Number I 263 Proper shipping mame I 263
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Label : 3
Proper shipping name (ADR):PAINTMarine Pollutant (IMDG):Marine PollutantMarine Pollutant component (IMDG):epoxy resin (Mw <= 700)
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

ERCOAT 235 RES	ared in accordance with Anne:	x II to Regulation (EC) No. 1907/2006. PPG Protective & Marine Coatings
-RUUA 7.33 RFS	SIN	Marine Coauligs
DS EU 01 / EN Version 1		Print Date 6/4/2010 Revision date 28-05-09
×		
Irritant	Dangerous for the environment	
	which must be listed on the lisphenol-A-(epichlorhydrin) e	abel: epoxy resin (number average molecularweight \leq 700)
R-phrase(s)	: R10 R36/38 R43 R51/53	Flammable. 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 S61	Do not breathe spray. Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
P-phrase(s)	: Cont	ains epoxy constituents. See information supplied by the
		manufacturer.
required by other health an apply to the use of this pro National legislation THER INFORMATION	d safety legislation. The prov duct at work.	manufacturer. not constitute the user's own assessment of workplace risks, as isions of the national health and safety at work regulations
required by other health an apply to the use of this pro National legislation THER INFORMATION This product contains a con	d safety legislation. The prov duct at work. mplex mixture of hydrocarbor	not constitute the user's own assessment of workplace risks, as isions of the national health and safety at work regulations
required by other health an apply to the use of this pro National legislation THER INFORMATION This product contains a con Explanation of R-phrases	d safety legislation. The prov duct at work. mplex mixture of hydrocarbor	not constitute the user's own assessment of workplace risks, as isions of the national health and safety at work regulations
required by other health an apply to the use of this pro National legislation	ad safety legislation. The prov duct at work. mplex mixture of hydrocarbon s mentioned in section 3 R10 R20/21	not constitute the user's own assessment of workplace risks, as isions of the national health and safety at work regulations ns. Detailed information can be obtained from the producer. Flammable. Harmful by inhalation and in contact with skin.

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So	lvent naphtha (petroleum), light arom.	R10 R51/53	Flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		R65	Harmful: may cause lung damage if swallowed.
		R37	Irritating to respiratory system.
		R66	Repeated exposure may cause skin dryness or cracking.
		R67	Vapours may cause drowsiness and dizziness.
me	esitylene	R10	Flammable.
	,	R37	Irritating to respiratory system.
		R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
rea	action product: bisphenol-A-	R36/38	Irritating to eyes and skin.
(er	pichlorhydrin) epoxy resin (number	R43	May cause sensitization by skin contact.
av	erage molecularweight \leq 700)	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
no	nylphenol	R22	Harmful if swallowed.
		R34	Causes burns.
		R62	Possible risk of impaired fertility.
		R63	Possible risk of harm to the unborn child.
		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
1,2	2,4-trimethylbenzene	R10	Flammable.
		R20	Harmful by inhalation.
		R36/37/38	Irritating to eyes, respiratory system and skin.
		R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
cu	mene	R10	Flammable.
		R37	Irritating to respiratory system.
		R51/53	Toxic to aquatic organisms, may cause long-term adverse
		R65	effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
rea	action product, mixed diamid wax	R43	May cause sensitization by skin contact.
		R53	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).

Version: 1

Revision date 28.05.2009

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.

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PPG Protective & Marine Coatings

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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.