

AMERCOAT 68 BS RESIN

MSDS EU 01 / EN Version 1

1. IDENTIFICATION OF THE SUBS	TAN	ICE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product information		
Trade name	:	AMERCOAT 68 BS 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

2. HAZARDS IDENTIFICATION

Symbol(s) : Irritant Dangerous for the environment

Hazardous components :

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700 < MW < 1000)

R-phrase(s) : FLAMMABLE. IRRITATING TO SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT. VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
xylene	215-535-7	1330-20-7	12 2008	Nota C	R10 Xn; R20/21 Xi; R38	>=2.50 - <10.00%
ethylbenzene	202-849-4	100-41-4	12 2008		F; R11 Xn; R20	>=1.00 - <2.50%
zinc powder	231-175-3	7440-66-6	12 2008		N; R50, R53	>=75.00 - <100.00%
2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	08 2009		R10	>=1.00 - <2.50%

General advice:When symptoms persist or in all cases of doubt seek medical advice. New give anything by mouth to an unconscious person.Eye contact:Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart. Remove contact lenses. Seek medical advice.Skin contact:Take off all contaminated clothing immediately. Wash skin thoroughly wi 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 irregula or stopped, administer artificial respiration. If unconscious place in recover position and seek medical advice.Ingestion:If accidently swallowed obtain immediate medical attention. Keep at rest. 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 medica attention.	8-05-10 5.00%
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight 700 < MW < 1000) 25068-38-6 Xi; R36/38 >=2.50 - Producer declares that for R-phrases not mentioned in chapters 3, the entire amount of hazardous substances is b limits. For components with an occupational threshold limit value see chapter 8. Xi entire amount of hazardous substances is b limits. For components with identical identifiers appear, these have different hazardous properties, e.g. flashpot 4. FIRST AID MEASURES E General advice : Eye contact : I'rigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart. Remove contact lenses. Seek medical advice. Skin contact : Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregul or stopped, administer artificial respiration. If unconscious place in recove position and seek medical advice. Ingestion : Wort 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 media attention.	8-05-10 5.00%
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5. FIRE-FIGHTING MEASURES	cal
Specific hazards during fire fighting:As the product contains combustible organic components, fire will product dense black smoke containing hazardous products of combustion (see sect 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 fi fire fighting to enter drains or water courses.	tion
Special protective equipment : In the event of fire, wear self-contained breathing apparatus.	
for fire-fightersSuitable extinguishing media:Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.	
Extinguishing media which : Do NOT use water jet. shall not be used for safety reasons	
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.	
Environmental precautionsaccumulate in low areas. Remove all sources of ignition.Environmental precautions:Try to prevent the material from entering drains or water ways. If the procontaminates rivers and lakes or drains inform respective authorities.	luct
Methods for cleaning up : Clean with detergents. Avoid solvents. Contain and collect spillage with r combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / nation regulations (see section 13).	
Additional advice : Refer to section 15 for specific national regulation.	
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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 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 and strongly acid or alkaline materials.

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
xylene IndicativeIndicativecan be absorbed through skin	1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL
ethylbenzene IndicativeIndicativecan be absorbed through skin	100-41-4	442 884	100 200	EU ELV TWA EU ELV STEL
2-methoxy-1-methylethyl acetate IndicativeIndicativecan be absorbed through skin	108-65-6	275 550	50 100	EU ELV TWA EU ELV STEL

Personal protective equipment

General advice

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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 air- fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.
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: Viton 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, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to 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
i i occuve equipment	By protection, safely goves and combining with the
Please contact your personal pr	otection equipment supplier for further advice
HYSICAL AND CHEMICAL P	ROPERTIES
Form	: viscous
Colour	: various
Odour Flash point	: characteristic : 24.0 °C
P	Note: Calculated
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Autoignition temperature Upper explosion limit	: Note: no data available : 7.86 %(V) 353.97 g/m3
Lower explosion limit	: 1.08 %(V) 49.18 g/m3
Density	: 3.37 g/cm3 at 20 °C
Water solubility	: no data available
pH	: no data available
Viscosity, dynamic Flow time	: : 30,000 h at 23 °C

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. Zinc oxide fumes.

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.
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 Components

zinc powder(7440-66-6)

Acute oral toxicity	:	LD50: 15 mg/kg (mouse)

SAFETY DATA SHEET рРG This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No. 1907/2006. PPG Protective & Marine Coatings AMERCOAT 68 BS RESIN MSDS EU 01 / EN Version 1 Print Date 5/29/2010 Revision date 28-05-10 **12. ECOLOGICAL INFORMATION** 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 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 The European Waste Catalogue classification of this product, when disposed ÷ product of as waste is: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances. 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 **14. TRANSPORT INFORMATION** Transport within user's premises: always transport in closed containers that are upright, labelled and secure. Ensure that 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 PAINT : Class : 3 Packing group (ADR) : III Label : 3 PAINT Proper shipping name (ADR) : Ш Packing group (IMDG/IATA) : Marine Pollutant (IMDG) Marine Pollutant • Marine Pollutant component (IMDG) zinc powder : F-E, S-E EmS (IMDG) 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.

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	ccordance with Anne.	x II to Regulation (EC) No. 1907/2006. PPG Protective &
		Marine Coatings
ERCOAT 68 BS RESIN DS EU 01 / EN Version 1		Print Date 5/29/2010
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	gerous for the	
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Hazardous components which m		abel: epoxy resin (number average molecular weight 700 < MW <
• reaction product: displication 1000)	-A-(epicniomydrin);	epoxy resin (number average molecular weight 700 < M w <
R-phrase(s)	: R10	Flammable.
	R38 R43	Irritating to skin. May cause sensitization by skin contact.
	R43 R50/53	Very toxic to aquatic organisms, may cause long-term
		adverse effects in the aquatic environment.
S-phrase(s)	: \$23	Do not breathe spray.
5-piii asc(s)	S36/37	Wear suitable protective clothing and gloves.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S61	Avoid release to the environment. Refer to special
		instructions/ Safety data sheets.
required by other health and safety apply to the use of this product at w	legislation. The prov	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 and safety	legislation. The prov	
required by other health and safety apply to the use of this product at w	legislation. The prov	
required by other health and safety apply to the use of this product at w National legislation	legislation. The prov /ork.	
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required by other health and safety apply to the use of this product at w National legislation OTHER INFORMATION Explanation of R-phrases mentio	legislation. The prov /ork. ned in section 3 R10 R20/21	Flammable. Harmful by inhalation and in contact with skin.
required by other health and safety apply to the use of this product at w National legislation OTHER INFORMATION Explanation of R-phrases mention xylene	ned in section 3 R10 R20/21 R38 R11	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Highly flammable.
required by other health and safety apply to the use of this product at w National legislation OTHER INFORMATION Explanation of R-phrases mention xylene ethylbenzene	ned in section 3 R10 R20/21 R38 R11 R20	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Highly flammable. Harmful by inhalation. Very toxic to aquatic organisms, may cause long-term
required by other health and safety apply to the use of this product at w National legislation OTHER INFORMATION Explanation of R-phrases mention xylene ethylbenzene zinc powder	ned in section 3 R10 R20/21 R38 R11 R20 R50/53	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Highly flammable. Harmful by inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R43

R36/38

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рРG

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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700 < MW < 1000) May cause sensitization by skin contact. Irritating to eyes and skin.

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 28.05.2010

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.