

AMERLOCK 400 GFA RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 1

Print Date 5/29/2010 Revision date 28-05-10

Product information						
Trade name	:	AMERLOCK	X 400 GF	A RESIN (LE	EAD CONTAINING)	
Recommended use	:	coating				
Company	:	PPG Coatings Noordersinge B-2040 Borge	1 23	3VBA		
Telephone	:	+32 3 360647	70			
Telefax	:	+32 3 360643	35			
Emergency telephone number	r:	+31 20 40752	210			
E-mail address	:	PMC.Safety	@PPG.c	om		
Symbol(s) : Toxic Dangerous for the environme Hazardous components : reaction product: bisphenol-A- Lead chromate molybdate sulfa R-phrase(s) : MAY CAUSE CANCER.	e nt (epichlorh ate red		esin (nun	nber average i	molecularweight ≤ 70)0)
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reaction product: bisphenol-		25068-38-6	12	Xi; I	R36/38	>=25.00 - <50.00%
A-(epichlorhydrin) epoxy			2008	R43		
resin (number average				N; R	R51, R53	
molecularweight \leq 700)						
Lead chromate molybdate	235-759-9	12656-85-8	08	Carc	c.Cat.2; R45	>=25.00 - <50.00%
sulfate red			2009	Repr	r.Cat.1; R61	
				Rep	r.Cat.3; R62	
				R33		
				N; R	R50, R53	

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.

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.			
Environmental precautions :		to prevent the material from entering drains or aminates rivers and lakes or drains inform resp			
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Methods for cleaning up	: Clean with detergents. Avoid solvents. Contain and collect spillage with non- combustible 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.
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	Value	Basis
		$[mg/m^3]$	[ppm]	
xylene IndicativeIndicativecan be absorbed through skin	1330-20-7	221 442	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,physicalrequirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, 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	:	Special work instructions

Please contact your personal protection equipment supplier for further advice

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: viscous
Colour	: various
Odour	: characteristic
Flash point	:
	Note: not applicable
Autoignition temperature	:
	Note: no data available
Upper explosion limit	: 7.17 %(V)
	318.34 g/m3
Lower explosion limit	: 0.99 %(V)
	44.17 g/m3
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Density	: 1.85 g at 20 °	
Water solubility		ta available
рН	: no dat	a available
Viscosity, dynamic Flow time	: : 55,000 h at 23 °C	
0. STABILITY AND REACTIVITY		
Conditions to avoid	: Avoid	l temperatures above 60°C (140 F), direct sunlight and contact with
	source	es of heat.
Hazardous reactions	: Keep	es of heat. away from oxidising agents, strongly alkaline and strongly acid ials in order to avoid exothermic reactions.

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.
Eye contact	: Irritating to eyes.
Carcinogenicity	: Note: Increased incidences of lung cancer have been identified in the chromate pigment manufacturing industry. Epidemiological studies have shown that where lead chromates alone were manufactured there were no cancer excesses. Animal studies have shown that some insoluble chromates are carcinogenic but the data does not extend to lead chromate pigments. There is no evidence of lung cancer arising from the use of lead chromate containing products. Epidemiological data has shown an association between elevated maternal lead levels and developmental effects in the offspring. Following the introduction of the criteria for Toxic to Reproduction hazard classification the EC has classified all lead compounds as causing developmental toxicity in humans. Lead chromate although of relatively low solubility and bioavailability, is included in the classification. Abdominal pain, nausea, vomiting, diarrhea. In extreme case it may cause serious damage to health.
Further information	: There is no data available for this product.
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Acute Toxicity Data for Components

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. The European Waste Catalogue classification of this product, when disposed Waste key for the unused : 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** 3082 : Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. : Class 9 : Packing group (ADR) III : Label : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper shipping name (ADR) : Technical name 1 Pigment Red 104 : Technical name 2 : epoxy resin (Mw ≤ 700) Packing group (IMDG/IATA) Ш Marine Pollutant (IMDG) Marine Pollutant : Marine Pollutant component (IMDG) : Pigment Red 104 EmS (IMDG) : 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

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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:

• reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight \leq 700)

• Lead chromate molybdate sulfate red

R-phrase(s)	: R45	May cause cancer.
	R61	May cause harm to the unborn child.
	R33	Danger of cumulative effects.
	R36/38	Irritating to eyes and skin.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R62	Possible risk of impaired fertility.
S-phrase(s)	: S53	Avoid exposure - obtain special instructions before
		use.
	S23	Do not breathe spray.
	S36/37	Wear suitable protective clothing and gloves.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.
P-phrase(s)	: Cor	ntains epoxy constituents. See information supplied by the manufacturer.
	Cor	ntains lead. Should not be used on surfaces liable to be chewed or sucked by children.
	Res	stricted to professional users.

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

xylene	R10 R20/21 R38	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.
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
Lead chromate molybdate sulfate red	R45	effects in the aquatic environment. May cause cancer.
	R61 R33 R62	May cause harm to the unborn child. Danger of cumulative effects. Possible risk of impaired fertility.
	R50/53	Very 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).

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.