

AMERCOAT 449 RESIN (LEAD CONTAINING) MSDS EU 01 / EN Version 2

Print Date 31-5-2010 Revision date 31-05-10

. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING				
Product information				
Trade name	: AMERCOAT 449 RESIN (LEAD CONTAINING)			
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			
 Symbol(s) : Toxic Dangerous for the environment Hazardous components : xylene lead sulfochromate yellow Lead chromate molybdate sulfate red R-phrase(s) : MAY CAUSE CANCER. MAY CAUSE CANCER. MAY CAUSE HARM TO THE UNBORN CHILD. ALSO HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. FLAMMABLE. DANGER OF CUMULATIVE EFFECTS. IRRITATING TO SKIN. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. P-phrase(s) : Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Restricted to professional users. 				
Contains : 2-butanone oxime May produce an allergic reaction.				
3. COMPOSITION/INFORMATION C				
Components EC No	D. CAS-No. DSD Note Classification Concentration			
	1/10			



AMERCOAT 449 RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 2

Print Date *31-5-2010* Revision date *31-05-10*

xylene	215-535-7	1330-20-7	12 2008	Nota C	R10 Xn; R20/21 Xi; R38	>=20.00 - <25.00%
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%
ethylbenzene	202-849-4	100-41-4	12 2008		F; R11 Xn; R20	>=2.50 - <10.00%
lead sulfochromate yellow	215-693-7	1344-37-2	08 2009		Carc.Cat.2; R45 Repr.Cat.1; R61 Repr.Cat.3; R62 R33 N; R50, R53	>=5.00 - <10.00%
Lead chromate molybdate sulfate red	235-759-9	12656-85-8	08 2009		Carc.Cat.2; R45 Repr.Cat.1; R61 Repr.Cat.3; R62 R33 N; R50, R53	>=2.50 - <5.00%
2-butanone oxime	202-496-6	96-29-7	12 2008		Carc.Cat.3; R40 Xn; R21 Xi; R41 R43	>=0.10 - <1.00%
1,2,4-trimethylbenzene	202-436-9	95-63-6	12 2008		R10 Xn; R20 Xi; R36/37/38 N; R51, R53	>=2.50 - <10.00%
cumene	202-704-5	98-82-8	12 2008	Nota C	R10 Xn; R65 Xi; R37 N; R51, 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	: 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. 		
	2/10		

pPG 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 449 RESIN (LEAD CONTAINING) MSDS EU 01 / EN Version 2 Print Date 31-5-2010 Revision date 31-05-10 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 As the product contains combustible organic components, fire will produce : fighting 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. Do NOT use water jet. Extinguishing media which • shall not be used for safety reasons 6. ACCIDENTAL RELEASE MEASURES Use personal protective equipment. Ventilate the area. Refer to protective **Personal precautions** : 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** Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities. Clean with detergents. Avoid solvents. Contain and collect spillage with non-Methods for cleaning up : 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. 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. 3/10

SAFETY DATA SHEET This Safety Data Sheet is prepared in acco	rdance with Annex II to Regulation (EC) No. 1907/2006.	PPG	
	PPG Protective & Marine Coatings		
MERCOAT 449 RESIN (LEA	AD CONTAINING)		
SDS EU 01 / EN Version 2		Print Date 31-5-2010 Revision date 31-05-10	
Advice on protection against : fire and explosion	Prevent the creation of flammable or explosive conce air and avoid vapour concentration higher than the oc limits. When transferring from one container to anoth measures and use conductive hose material. No spark used. Operators should wear anti-static footwear and should be of the conducting type. Isolate from sources open flame. Take necessary action to avoid static elec might cause ignition of organic vapours). The produc areas from which all naked lights and other sources or excluded. No smoking. The accumulation of contamin overspray, particularly in spray booth filters, may rest combustion. Materials such as cleaning rags, paper w clothing, which are contaminated with the product ma- ignite some hours later. To avoid the risks of fires, all should be stored in purpose-built containers or in met fitting self-closing lids or laid out flat in a single layer closed metal container soaked with water or washed of soapy water before disposal. Contaminated materials from the workplace at the end of each working day ar Good housekeeping standards, regular safe removal or regular maintenance of spray booth filters will minim spontaneous combustion and other fire hazards.	e occupational exposure nother apply earthing parking tools should be and clothing and floors arces of heat, sparks and electricity discharge (which duct should only be used in es of ignition have been aminated rags and dry result in spontaneous er wipes and protective t may spontaneously self- a, all contaminated materials metal containers with tight- ayer to dry or placed in a ed out well with warm ials should be removed by and be stored outside. val of waste materials and	
Storage			
Requirements for storage areas : and containers	Observe label precautions. Prevent unauthorized acce are opened must be carefully resealed and kept uprigh Store between 5 and 30°C (41 - 86 F) in a dry, well we from sources of heat, ignition and direct sunlight. Sol than air and may spread along floors. Vapours may for with air. Electrical installations / working materials m technological safety standards. Keep away from source smoking. Store in accordance with the particular nation section 15).	at to prevent leakage. entilated place away vent vapours are heavier form explosive mixtures uust comply with the ces of ignition - No	
Advice on common storage :	Keep away from oxidising agents and strongly acid or	r 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
Solvent naphtha (petroleum), light arom.	64742-95-6	125		ESIG TWA
ethylbenzene IndicativeIndicativecan be absorbed through skin	100-41-4	442 884	100 200	EU ELV TWA EU ELV STEL
1,2,4-trimethylbenzene Indicative	95-63-6	100	20	EU ELV TWA
cumene IndicativeIndicativecan be absorbed through skin	98-82-8	100 250	20 50	EU ELV TWA EU ELV STEL

Personal protective equipment

4/10

рPG PPG Protective & Marine Coatings

AMERCOAT 449 RESIN (LEAD CONTAINING) MSDS EU 01 / EN Version 2

Print Date 31-5-2010 Revision date 31-05-10

 When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikly to be sufficient to control particulates and solve vapour in all cases. In such circumstances they should wear a compressed a fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. 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 produc
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 b handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove supplier.
 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.
lootwear.
: Refer to national regulations in chapter 15 for regulations on environmental protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Colour Odour Flash point	: viscous : various : characteristic : 29.0 °C	
Autoignition temperature Upper explosion limit	Note: Calculated Note: no data available 7.19 %(V) 334.52 g/m3	
	5/10	



AMERCOAT 449 RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 2

Print Date *31-5-2010* Revision date *31-05-10*

: 0.92 %(V)
42.94 g/m3
: 1.23 g/cm3
at 20 °C
: no data available
: no data available
: 1,700 mPa.s at 23 °C
: $>= 60 \text{ s}$
Transversal section: 6 mm
Method: ISO 2431 (EN 535) 6 mm CUP
,
: Avoid temperatures above 60°C (140 F), direct sunlight and contact with
sources of heat. : Keep away from oxidising agents, strongly alkaline and strongly acid
materials in order to avoid exothermic reactions.
: 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.
: 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.
: May cause nausea, abdominal spasms and irritation of the mucous membranes.
: 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 or kidney, liver and central nervous system. Symptoms and signs: headache,
dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss
of consciousness.
: Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product ma
be absorbed through the skin.
: The liquid splashed in the eyes may cause irritation and reversible damage.
: 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

damage to health.

pain, nausea, vomiting, diarrhea. In extreme case it may cause serious

	accordance with Annex II to Regulation (EC) No. 1907/2006.	PPG PPG Protective & Marine Coatings
AMERCOAT 449 RESIN (I	LEAD CONTAINING)	Drint Data 21 5 2010
MSDS EU 01 / EN Version 2		Print Date <i>31-5-2010</i> Revision date <i>31-05-10</i>
Further information	: There is no data available for this product.	
Acute Toxicity Data for Compo	nents	
2-butanone oxime(96-29-7)		
Acute inhalation toxicity Acute dermal toxicity	: LC50: > 4.8 mg/l (rat) : LD50: 1,000 - 1,800 mg/kg (rabbit)	
cumene(98-82-8)		
Acute oral toxicity	: LD50: 382 mg/kg (rat)	
12. ECOLOGICAL INFORMATION		
Further information	: No data is available on the product itself. The prepara following the conventional method of the Dangerous 1999/45/EC and is classified for ecotoxicological presections 3 and 15 for details. The product should not drains, water courses or the soil.	s Preparations Directive operties accordingly. See
13. DISPOSAL CONSIDERATIONS Product	 The product should not be allowed to enter drains, w Disposal together with normal waste is not allowed. according to local regulations. 	
Waste key for the unused product	: The European Waste Catalogue classification of this of as waste is:	product, when disposed
	08 01 11* Waste paint and varnish containing organidangerous substances.	ic solvents or other
	If this product is fully cured or mixed with other was longer apply. If mixed with other wastes, the approp assigned. For further information contact your local	riate code should be
14. TRANSPORT INFORMATION		
	always transport in closed containers that are upright, labelle know what to do in the event of an accident or spillage.	ed and secure. Ensure that
Transport to be in accordance with UN-Number Proper shipping name	h ADR for road, IMDG for sea and IATA for air transport: : 1263 : PAINT	
Class Packing group (ADR) Label	: PAINT : 3 : III : 3	
Proper shipping name (ADR)	: 5 : PAINT	
Packing group (IMDG/IATA) Marine Pollutant (IMDG) Marine Pollutant component (IME EmS (IMDG)	: III : Marine Pollutant DG) : Pigment Yellow 34 : F-E, S-E	
	7/10	

:



AMERCOAT 449 RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 2

Print Date 31-5-2010 Revision date 31-05-10

Limited quantity (ADR)

Limited quantity (IMDG)

Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG 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.



Dangerous for the

environment

Hazardous components which must be listed on the label:

- xylene
- lead sulfochromate yellow
- Lead chromate molybdate sulfate red

R-phrase(s)	: R45 R61 R20/21 R10 R33 R38 R51/53	May cause cancer. May cause harm to the unborn child. Also harmful by inhalation and in contact with skin. Flammable. Danger of cumulative effects. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: \$53 \$23 \$36/37 \$38 \$45 \$61	Avoid exposure - obtain special instructions before use. Do not breathe spray. Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/ Safety data sheets.
P-phrase(s)	:	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Restricted to professional users. Contains : 2-butanone oxime May produce an allergic reaction.
		8/10



AMERCOAT 449 RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 2

Print Date 31-5-2010 Revision date 31-05-10

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

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.	
Solvent naphtha (petroleum), light arom.	R10 R51/53 R65 R37 R66 R67	Flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Irritating to respiratory system. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.	
ethylbenzene	R11 R20	Highly flammable. Harmful by inhalation.	
lead sulfochromate yellow	R45 R61 R33 R62 R50/53	May cause cancer. May cause harm to the unborn child. Danger of cumulative effects. Possible risk of impaired fertility. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Lead chromate molybdate sulfate red	R45 R61 R33 R62 R50/53	May cause cancer. May cause harm to the unborn child. Danger of cumulative effects. Possible risk of impaired fertility. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
2-butanone oxime	R21 R40 R41 R43	Harmful in contact with skin. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitization by skin contact.	
1,2,4-trimethylbenzene	R10 R20 R36/37/38 R51/53	Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
		9/10	
9/10			

PPG Protective & Marine Coatings

AMERCOAT 449 RESIN (LEAD CONTAINING)

MSDS EU 01 / EN Version 2

Print Date 31-5-2010 Revision date 31-05-10

cumene	R10	Flammable.
	R37	Irritating to respiratory system.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse
		effects in the aquatic environment.
	R65	Harmful: may cause lung damage if swallowed.

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: 2

Revision date 31.05.2010

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.