

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

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

Frade name	:	AMERCOAT 450 X CURE
Recommended use	:	coating
Company	:	PPG Coatings SPRL/BVBA Noordersingel 23 B-2040 Borgerhout
Felephone	:	+32 3 3606470
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Emergency telephone number	:	+31 20 4075210
E-mail address	:	PMC.Safety@PPG.com

Symbol(s) :

Harmful

Hazardous components : xylene isocyanic acid, hexamethylene ester, polymers

R-phrase(s) : FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. IRRITATING TO SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT. **P-phrase(s) :** Contains isocyanates. 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	12 2008	Nota C	R10 Xn; R20/21 Xi; R38	>=25.00 - <50.00%
ethylbenzene	202-849-4	100-41-4	12 2008		F; R11 Xn; R20	>=10.00 - <25.00%
hexamethylene diisocyanate	212-485-8	822-06-0	12 2008		T; R23 Xi; R36/37/38 R42/43	>=0.10 - <0.50%
			1/8			



AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

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

socyanic acid,		28182-81-2			R43	>=25.00 - <50.009	
examethylene ester, olymers							
2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	08 2009		R10	>=10.00 - <25.009	
Producer declares that for I limits. For components with If multiple components with	an occupat	ional threshold	l limit value s	ee chapter 8.			
FIRST AID MEASURES							
General advice		When sympton give anything				nedical advice. Never	
Eye contact	:	Irrigate copiou eyelids apart. 1	sly with clear Remove conta	n, fresh water act lenses. See	for at least 1 k medical ad		
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	:						
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.					
FIRE-FIGHTING MEASURE Specific hazards during fire fighting	e :	dense black sn	noke containi	ng hazardous	products of c	ents, fire will produce combustion (see section zard to health. Cool	
		fire fighting to	enter drains	or water cours	ses.	not allow run-off from	
Special protective equipmer for fire-fighters		In the event of			0 11		
Suitable extinguishing med		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 v	vater jet.				
ACCIDENTAL RELEASE N	IEASURES	i					
Personal precautions			•	•		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	: Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities.
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.
	2/8

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

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

ANDLING 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. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used.
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, strongly acid or alkaline materials, as well as of amines, alcohols and water.

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					
3/8					

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

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

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 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. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. If dry flattin is unavoidable air fed respiratory protective equipment should be used.
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 produ
	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 antistation footwear.
Additional advice	
Environmental protection	: Refer to national regulations in chapter 15 for regulations on environmenta protection.
Personal protection Protective equipment	: Enclosing glasses, safety gloves and P2A2 half-face combi mask
Please contact your personal pr	rotection equipment supplier for further advice
Please contact your personal pr IYSICAL AND CHEMICAL PI Form	

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

1

1

PPG Protective & Marine Coatings

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

: various
: characteristic
: 26.0 °C
Note: Calculated
:
Note: no data available
: 7.9 %(V)
363.74 g/m3
: 1.1 %(V)
50.64 g/m3
: 0.95 g/cm3
at 20 °C
: no data available
: no data available
: 200 mPa.s at 23 °C
: 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. Avoid moisture. Amines and alcohols cause exothermic reactions. Preparation reacts slowly with water
resulting in evolution of CO2.Evolution of CO2 in closed containers causes
resulting in evolution of CO2. Evolution of CO2 in closed containers causes
overpressure and produces a risk of bursting.In case of fire hazardous decomposition products may be produced such as:
 overpressure and produces a risk of bursting. In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx),
overpressure and produces a risk of bursting.In case of fire hazardous decomposition products may be produced such as:
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 overpressure and produces a risk of bursting. 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.

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. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. 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. The liquid splashed in the eyes may cause irritation and reversible damage. Eye contact : **Further information** There is no data available for this product. :

5/8

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1



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

	Revision date 28-05-				
Acute Toxicity Data for Comp	onents				
hexamethylene diisocyanate(822	2-06-0)				
Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity	: LD50: 746 mg/kg (rat) : LC50: 0.15 mg/l (rat, 4 h) : LD50: 599 mg/kg (rabbit,)				
. ECOLOGICAL INFORMATION	J				
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 not classified as dangerous for the environment. See section 3 for details on components. The product should not be allowed to enter drains, water courses or the soil.				
. DISPOSAL CONSIDERATION	IS				
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 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				
persons transporting the product	: always transport in closed containers that are upright, labelled and secure. Ensure that know what to do in the event of an accident or spillage. ith ADR for road, IMDG for sea and IATA for air transport:				
UN-Number Proper shipping name	: 1263 : PAINT RELATED MATERIAL				
Class Packing group (ADR) Label	: 3 : III : 3				
Proper shipping name (ADR)	: PAINT RELATED MATERIAL				
Packing group (IMDG/IATA)	: III				
Marine Pollutant (IMDG)	: - : F-E, S-E				
EmS (IMDG)					
	: Max. per inner pack. : 5.00 L				
EmS (IMDG)					

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 450 X CURE MSDS EU 01 / EN Version 1 Print Date 5/29/2010 Revision date 28-05-10 Max. per outer pack. : 30.00 KG **15. REGULATORY INFORMATION** The product is classified and labelled in accordance with Directive 1999/45/EC. Harmful Hazardous components which must be listed on the label: xylene • isocyanic acid, hexamethylene ester, polymers R10 Flammable. **R-phrase(s)** ÷ R20/21 Harmful by inhalation and in contact with skin. R38 Irritating to skin. R43 May cause sensitization by skin contact. S-phrase(s) S23 Do not breathe spray. : S36/37 Wear suitable protective clothing and gloves. S38 In case of insufficient ventilation, wear suitable respiratory equipment. Contains isocyanates. See information supplied by the **P-phrase(s)** : 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 **16. OTHER INFORMATION** Explanation of R-phrases mentioned in section 3 xylene R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R38 Irritating to skin.

7/8

AMERCOAT 450 X CURE

MSDS EU 01 / EN Version 1

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

ethylbenzene	R11	Highly flammable.
-	R20	Harmful by inhalation.
hexamethylene diisocyanate	R23	Toxic by inhalation.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R42/43	May cause sensitization by inhalation and skin contact.
isocyanic acid, hexamethylene ester,	R43	May cause sensitization by skin contact.
polymers		
2-methoxy-1-methylethyl acetate	R10	Flammable.

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.