

### PITT-CHAR XP EP 97-194 COMPONENT A

MSDS EU 01 / EN Version

Print Date *1-6-2010* Revision date *01-06-10* 

1. IDENTIFICATION OF THE SUBS	STAN	NCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product information		
Trade name	:	PITT-CHAR XP EP 97-194 COMPONENT A
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) : Dangerous for the environment Harmful

**Hazardous components :** tris(2-chloroethyl) phosphate

**R-phrase(s) :** LIMITED EVIDENCE OF A CARCINOGENIC EFFECT. 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
tris(2-chloroethyl) phosphate	204-118-5	115-96-8	25th	Nota E	Carc.Cat.3; R40 Xn; R22 N; R51, R53	>=10.00 - <25.00%
ammonium pentaborate		12046-04-7			Xi; R36/37/38	>=10.00 - <20.00%
zinc borate hydrate		138265-88- 0			N; R50/53	>=10.00 - <25.00%

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.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

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#### 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.
IRE-FIGHTING MEASURES		
IRE-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
Specific hazards during fire fighting Special protective equipment	:	attention. 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
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.

### 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	: 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	<ul> <li>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).</li> </ul>
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.
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fire and explosion	:	Prevent the creation of flammable or explosive concentrations of vapour air and avoid vapour concentration higher than the occupational exposur 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 an open flame. Take necessary action to avoid static electricity discharge (w might cause ignition of organic vapours). The product should only be us areas from which all naked lights and other sources of ignition have beet 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 was materials and regular maintenance of spray booth filters will minimise th risks of spontaneous combustion and other fire hazards.	re d which ed in n
Storage			
Requirements for storage areas and containers	:	Observe label precautions. Prevent unauthorized access. Containers whi are opened must be carefully resealed and kept upright to prevent leakag Store between 5 and 30°C (41 - 86 F) in a dry, well ventilated place awa from sources of heat, ignition and direct sunlight. Solvent vapours are he than air and may spread along floors. Vapours may form explosive mixt with air. Electrical installations / working materials must comply with th technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).	ge. ay eavier ures ne
	:	Keep away from oxidising agents and strongly acid or alkaline materials	3.
Advice on common storage KPOSURE CONTROLS/PERSC Components on the national list Components	_		
KPOSURE CONTROLS/PERSC	_	PROTECTION or the European TLV list (98/24/EC): CAS-No. Value Value Basis	S.
Components on the national list	_	PROTECTION or the European TLV list (98/24/EC): CAS-No. Value Value Basis	S.

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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.
		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 toglovematerials, 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	:	
	Note: not applicable	
Lower explosion limit	:	
-	Note: not applicable	
Density	: 1.49 g/cm3	
	at 20 °C	
Water solubility	: no data available	
U U		
рН	: no data available	
Viscosity, dynamic	: 200,000 mPa.s at 23 °C	
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Flow time	: $>= 60 \text{ s}$	
	Transversal section: 6 mm	
	Method: ISO 2431 (EN 535) 6 mm CUP	
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STABILITY AND REACTIVITY	
Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with
Hazardous reactions	<ul> <li>sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> </ul>
Hazardous decomposition products	<ul> <li>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.</li> </ul>
OXICOLOGICAL INFORMATI	ON
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
Acute oral toxicity	<ul> <li>toxicological hazards accordingly. See Sections 3 and 15 for details.</li> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> </ul>
Acute inhalation toxicity	<ul> <li>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.</li> </ul>
Skin irritation	<ul> <li>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.</li> </ul>
Eye contact Further information	<ul><li>The liquid splashed in the eyes may cause irritation and reversible damage.</li><li>There is no data available for this product.</li></ul>
Acute Toxicity Data for Compo	nents
tris(2-chloroethyl) phosphate(115	-96-8)
Acute oral toxicity	: LD50: 1,150 mg/kg (rat)
ammonium pentaborate(12046-04	-7)
Acute oral toxicity Acute dermal toxicity	<ul> <li>LD50: 4,200 mg/kg (rat)</li> <li>LD50: &lt; 2,000 mg/kg (rabbit )</li> </ul>
COLOGICAL 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.



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#### 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 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

### **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:

:	3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
:	9
:	III
:	9
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
:	zinc borate hydrate
:	tris(2-chloroethyl)phosphate
	: III
	: Marine Pollutant
j)	: zinc borate hydrate
	: F-A, S-F
	: 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
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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:

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R-phrase(s)	: R40 R50/53	Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-tern 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.
	safety legislation. The prov	not constitute the user's own assessment of workplace risks, a risions of the national health and safety at work regulations
Explanation of R-phrases n	R22 R40	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R22 R40 R51/53	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Explanation of R-phrases n tris(2-chloroethyl) phosphate ammonium pentaborate zinc borate hydrate This Safety Data Sheet is bas databases and valid regulation Training advice:	R22 R40 R51/53 R36/37/38 R50/53 ed on the Safety Data Shee ns considering hazardous s	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Explanation of R-phrases m tris(2-chloroethyl) phosphate ammonium pentaborate zinc borate hydrate This Safety Data Sheet is bas databases and valid regulation Training advice: Persons taking part in a turno	R22 R40 R51/53 R36/37/38 R50/53 ed on the Safety Data Shee ns considering hazardous s	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Explanation of R-phrases m tris(2-chloroethyl) phosphate ammonium pentaborate zinc borate hydrate This Safety Data Sheet is bas databases and valid regulation Training advice: Persons taking part in a turno	R22 R40 R51/53 R36/37/38 R50/53 ed on the Safety Data Shee ns considering hazardous s over of hazardous products nd obtain a certificate in ac	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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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.