

**SAFETY DATA SHEET**

as per EC Guideline 1907/2006 (REACH)

Page: 1

08/04/2011

Version: 17/12/2010

No.: LN 6271

**Power Color International GmbH, Königspergerstraße 5, 93426 Roding / Germany**

**Number** : PPAC+A  
**Name** : PowerProtect AC (Component Hardener B)  
**Colour** : colourless  
**Gloss** :  
**Trade name** : PowerProtect AC

**Address** : Power Color International GmbH  
Königspergerstr. 5  
93426 Roding

**Information provided by** : Laboratory  
**Telephone** : 0202/69825-0  
**email address** : info@pc-int.de  
**Emergency number** : 0202/69825-0

**Purpose**  
Hardener for varnish

**2. Possible dangers**

CLASSIFICATION:

ADDITIONAL HAZARD WARNINGS FOR HUMANS AND THE ENVIRONMENT:

Flammable. Harmful to health when inhaled.

Sensitisation possible through skin contact.

**3. Composition / Information on components**

CAS	Component	Fraction %	Symbol R	Phrases/Other
822-06-0	Hexamethylene-1,6-diisocyanate	<=0.5	T	23,42/43,36/37/38
1330-20-7	Xylol	>5<=10	Xn	10,38,20/21
100-41-4	Ethylbenzol	>1<=3	Xn,F	11,20
108-65-6	2-Methoxy-1-methyl ethyl acetate	>10<=15	Xi	10,36

**4. First aid measures**

GENERAL NOTES: Where symptoms occur or in cases of doubt, seek medical advice. Do not administer remedies by mouth where victim is unconscious.

AFTER INHALATION: Expose to fresh air, allow victim to rest and keep warm. Artificial respiration in the event of irregular breathing or respiratory arrest. In case of unconsciousness, place victim in lateral recumbent position and seek medical advice.

AFTER SKIN CONTACT: Remove soiled and impregnated clothing immediately. Wash contaminated skin thoroughly with water and soap or use a suitable cleaning agent. DO NOT use a solvent or thinners!

AFTER CONTACT WITH EYES: Keep eyelids open and rinse for at least 10 minutes with ample clean, flowing water; seek medical advice.

AFTER SWALLOWING; Consult a doctor immediately where swallowing has occurred! Keep victim calm. Do not induce vomiting!

**5. Fire-fighting measures**

SUITABLE EXTINGUISHING AGENTS

Foam (alcohol-resistant), CO<sub>2</sub>, powder, spray mist (water).

EXTINGUISHING AGENTS THAT ARE UNSUITABLE FOR SAFETY REASONS:

Water jet

SPECIAL HAZARDS RESULTING FROM THE SUBSTANCE, ITS COMBUSTION PRODUCTS OR RESULTING GASES:

Thick, black smoke results from a fire. Inhalation of hazardous

decomposition products can cause serious damage to health.

**SPECIAL PERSONAL PROTECTIVE EQUIPMENT:**

Ggf. Breathing apparatus required where necessary.

**ADDITIONAL NOTE:**

Cool closed containers in the vicinity of the fire source using water.

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**6. Measures after unintentional release**

**PERSON-RELATED PRECAUTIONARY MEASURES:**

Keep away from ignition sources and ventilate area well. Do not inhale fumes.

Observe safety regulations (see chapters 7 and 8).

**ENVIRONMENTAL PROTECTION MEASURES:**

Do not allow product to enter sewage system. Where rivers, lakes or sewers are contaminated, notify the responsible authorities in terms of local laws.

**PROCEDURE FOR CLEANING / REMOVAL:**

Enclose and gather spilt material using non-flammable absorption material (e.g. sand, earth, diatomaceous earth, vermiculite). Fill into appropriate container. Immediately clean contaminated areas using a suitable solvent.

Suitable agents (flammable!):

Water	45 Vol.%
Ethanol or isopropanol	50 Vol.%
Ammonia solution (density = 0.88)	5 Vol.%

Alternatives for use (non-flammable!):

Sodium carbonate	5 Vol.%
Water	95 Vol.%

Gather spilt material with the solvent used and allow

to stand in open containers for a few days until no further reaction occurs.

Then close containers and dispose of according to local regulations (see section 13).

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**7. Handling and storage**

**HANDLING**

PERSONS SUFFERING FROM ALLERGIES, ASTHMA AND CHRONIC RESPIRATORY DISEASES SHOULD NOT BE EXPOSED TO PREPARATIONS OF THIS TYPE.

**NOTES FOR SAFE HANDLING:**

Avoid the formation of flammable and explosive solvent vapours in the air and exceeding of the MAK limit values. Only use the material in locations where naked light, flames and other ignition sources are avoided. The material may be electrostatically charged: only use earthed piping when refilling. Wearing of antistatic clothing including shoes is recommended. Use spark-safe tools. Avoid contact with eyes and skin. Do not inhale vapours and spray mist. Do not eat, drink or smoke when working with the material. See Personal protective equipment under section 8. Observe statutory provisions for safety and security.

**NOTES ON FIRE AND EXPLOSION PROTECTION:**

Solvent vapours are heavier than air and spread across the ground. When vapours are mixed with air, an explosive mixture is formed.

**STORAGE**

**STORAGE AREA AND CONTAINER REQUIREMENTS:**

Electrical equipment must be appropriately protected against explosion according to norms. Floors must be electrically conductive.

Store containers in a tightly closed state. Do not empty contents under pressure - not a pressure container!

Smoking prohibited. No admittance to unauthorised personnel. Close opened containers carefully, and store upright to prevent any egress.

**NOTES ON STORAGE WITH OTHER MATERIALS:**

Keep away from strong acids and alkaline materials as well as oxidants, amines, alcohols and water.

**ADDITIONAL INFORMATION ON STORAGE CONDITIONS:**

Only store in containers that correspond to the original vessels. Avoid the effects of moisture or water: CO<sub>2</sub> formation in closed containers promotes the development of pressure. Store between ...5 degrees C and 35 degrees C in a dry, well-ventilated place. Protect from heat and direct sun. Keep away from ignition sources.

STORAGE CLASS: .....

Store in accordance with the provisions for storing flammable liquids (VbF).

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**8. Exposure limitation and personal protective equipment**

PERSONS SUFFERING FROM ALLERGIES, ASTHMA AND PERSISTENT OR CHRONIC RESPIRATORY DIFFICULTIES SHOULD NOT BE PERMITTED TO HANDLE PREPARATIONS OF THIS TYPE.

**TECHNICAL PROTECTIVE MEASURES:**

Ensure adequate ventilation. This can be achieved through local suction or general extraction. Where this is insufficient to maintain the solvent vapour concentration under the MAK limit value, a suitable breathing apparatus must be used.

**Components with workplace-related limit values that must be monitored**

CAS	Component	Fraction EH
822-06-0	Hexamethylene-1,6-diisocyanate	0.07 mg/m3
1330-20-7	Xylol	100.00 ppm
108-65-6	2-Methoxy-1-methyl ethyl acetate	50.00 ppm

**Personal protective equipment**

**BREATHING PROTECTION:**

during spraying : environment-dependent devices  
otherwise : in well-ventilated areas oxygen masks can be replaced by  
filter devices with combination filters such as particle /  
gas filters.

**HAND PROTECTION:** Wear Nitril protective gloves. Penetration time:  
"Only suitable for spray protection." Change gloves where contamination occurs.  
Areas of the hand that could come into contact with the product should  
be covered with protective cream. After contact, discontinue use. Observe  
manufacturer's recommendations.

**EYE PROTECTION:** Wear safety goggles to protect against solvent spray.

**BODY PROTECTION:** Wear anti-static clothing made from natural fibres (cotton)  
or heat-resistant synthetic fibres. Wash thoroughly after contact with  
skin surfaces. Do not use organic solvents.

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**9. Physical and chemical properties**

**Chemical characteristics**

Modified isocyanate

**Form** : liquid

**Odour:** typical

		Value	Unit	Method
<b>Flash point</b>	:	38	deg C	DIN 53213
<b>Viscosity</b>	: (20 deg C)	+/- 60	sec	DIN 53211
<b>Density</b>	: (20 deg C)	+/- 1.0700	g/cm3	DIN 53217
<b>Lower ex limit</b>	:	0.90	Vol %	
<b>Upper ex limit</b>	:	10.80	Vol %	
<b>Solubility in water</b>	:			
<b>Solvent content</b>	:	25.00	%	

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**10. Stability and reactivity**

**CONDITIONS TO BE AVOIDED:** Stable when adhering to the recommended provisions  
for storage and handling (see section 7)

**MATERIALS TO BE AVOIDED:** Keep away from strong acidic and alkaline materials as well as  
oxidants. Amines and alcohols cause exothermic  
reactions. The preparation reacts slowly with water, thereby developing  
CO<sub>2</sub>; danger of bursting exists for closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

At high temperatures, hazardous decomposition products such as  
CO<sub>2</sub>, CO, smoke, nitrogen oxides as well as hydrocyanic acid and amines,  
alcohol and water can develop.

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**11. Information on toxicology**

The following information is applicable, based on the properties of the isocyanate fraction  
of this and other similar observed preparations:

This preparation may cause acute irritation and/or sensitivity in the respiratory tract,  
which leads to a tight feeling in the chest, shortness of breath and  
asthmatic complaints. Where sensitivity occurs, concentrations  
below the MAK value can be the cause of indications of asthma.

Repeated inhalation can lead to permanent respiratory diseases. The

inhalation of solvent vapours above the MAK limit value

can lead to damage to health such as irritation of the mucous membranes and respiratory  
organs, kidneys and liver damage as well as impairment of the central nervous system.

**Symptoms:** Headaches, dizziness, fatigue, muscle weakness, numbing

effect and unconsciousness in exceptional circumstances. Longer, repeated contact

impairs the re-lubrication of the skin and leads to drying out of the skin.

The product can enter the body through the skin. Solvent sprays

can cause irritations to the eye and reversible damage.

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**12. Environment-specific information**

Water-polluting fluid. Product may not enter the sewage system or  
ground water.

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**13. Notes for disposal**

PRODUCT

Recommendation:

Do not allow product to enter sewage system.

Waste key no.: Waste name

08 01 11 Paint and varnish waste containing organic solvents or other hazardous substances.

CONTAMINATED PACKAGING

Recommendation:

Empty containers must be returned for scrap processing or

reconditioning. Vessels not emptied in the proper manner are special waste.

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**14. Transport information**

GGVSee/IMDG code : 3 III UN NO : 1263 ICAO/IATA : 3 III

GGVE/GGVS : - ADR/RID : 3 III ADNR : -

**Other information**

Designation of goods: PAINT ACCESSORY MATERIAL

Proper Shipping Name: PAINT RELATED MATERIAL

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**15. Information on legal provisions**

**Name information**      **Symbols**      : Xn

Dexamethylene-1,6.Diisocyanate homopo

**General warning notes**

Contains isocyanate. Observe manufacturer's notes.

**R Phrases:** 10                      20                      43

**S Phrases:** 23                      24                      37                      51

**R / S Phrase texts**

Flammable.

Damaging to health if inhaled.

Sensitisation possible through skin contact.

Do not inhale gas / smoke/ steam / aerosol.

Avoid contact with the skin.

Wear appropriate protective gloves.

Use in well-ventilated areas only.

**TA Air Class I (%) :** 0,00      **WGK (Self-classification) :** 2  
**Class II (%) :** 12.50      **VbF**      **:** A II  
**Class III (%) :** 12.50

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**16. Other information**

The information in this safety data sheet corresponds to our current state of knowledge and meets the requirements of both national and EC legislation. The operational conditions under which the product is used are however beyond our knowledge and control. The product may not be used for any purpose other than the purpose listed in section 1 without written consent. The user shall be responsible for adherence to all required statutory provisions.

The information in this safety data sheet describes the safety requirements of our product and provides no assurance of the product's properties.

THE INFORMATION IN THIS SAFETY DATA SHEET IS REQUIRED ACCORDING TO PARAGRAPH 14 OF THE HAZARDOUS SUBSTANCES REGULATION DATED 01/11/1993.

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