

# SAFETY DATA SHEET



C160 Clear Coat HS+

## 1. Identification of the preparation and of the company

**Product name and/or code** : C160 Clear Coat HS+  
**Product use** : Car Refinishing Paint  
**Manufacturer** : ADPCC  
Zuiveringweg 89  
8243 PE Lelystad  
the Netherlands  
tel: +31 (0)320 264665  
fax: +31 (0)320 264781  
**Emergency telephone number of the company** : Call: +31 (0)320 292200 (during daytime)

## 2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS number	%	EC number	Classification
n-butyl acetate	123-86-4	25 - 50	204-658-1	R10 R66, R67
Heptan-2-one	110-43-0	12.5 - 25	203-767-1	R10 Xn; R20/22
2-Butoxyethyl acetate	112-07-2	1 - 5	203-933-3	Xn; R20/21
Hydroxyphenyl-benzotriazole derivate I	104810-48-2	0 - 1		R43 N; R51/53
Hydroxyphenyl-benzotriazole derivate II	104810-47-1	0 - 1		R43 N; R51/53
Bispentamethylpiperidylsebacate	41556-26-7	0 - 1	255-437-1	R43 N; R50/53
Methylpentamethylpiperidylsebacate	82919-37-7	0 - 1	280-060-4	R43 N; R50/53
<b>See section 16 for the full text of the R-phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : R10  
R66, R67  
R52/53

**Physical/chemical hazards** : Flammable.

**Human health hazards** : Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Additional warning phrases** : Contains (Hydroxyphenyl-benzotriazole derivate I, Hydroxyphenyl-benzotriazole derivate II, Bispentamethylpiperidylsebacate, Methylpentamethylpiperidylsebacate).  
May produce an allergic reaction.

## 4. First-aid measures

### First-aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

## 5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

## 6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

## 7. Handling and storage

Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely 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.

### Storage

- : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidising agents, strong alkalis, strong acids.  
No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not empty into drains..

## 8. Exposure controls/personal protection

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
n-butyl acetate	<b>ACGIH TLV (United States, 1/2005). Notes: 1998 Adoption.</b> STEL: 200 ppm 15 minute/minutes. Form: All forms TWA: 150 ppm 8 hour/hours. Form: All forms
Heptan-2-one	<b>80/1107/EEC (Europe).</b> CEIL: 50 ppm CEIL: 233 mg/m <sup>3</sup> <b>EU OEL (Europe, 4/2004). Skin Notes: Indicative</b> STEL: 475 mg/m <sup>3</sup> 15 minute/minutes. Form: All forms STEL: 100 ppm 15 minute/minutes. Form: All forms TWA: 238 mg/m <sup>3</sup> 8 hour/hours. Form: All forms TWA: 50 ppm 8 hour/hours. Form: All forms
2-Butoxyethyl acetate	<b>EU OEL (Europe, 4/2004). Skin Notes: Indicative</b> STEL: 333 mg/m <sup>3</sup> 15 minute/minutes. Form: All forms STEL: 50 ppm 15 minute/minutes. Form: All forms TWA: 133 mg/m <sup>3</sup> 8 hour/hours. Form: All forms TWA: 20 ppm 8 hour/hours. Form: All forms

### Personal protective equipment

#### **Respiratory system**

- : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

## 8. Exposure controls/personal protection

**Skin and body** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

### Hands

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Eyes** : Use safety eyewear designed to protect against splash of liquids.

### Environmental exposure controls

Do not allow to enter drains or watercourses.

## 9. Physical and chemical properties

**Physical state** : Liquid.

**Colour** : Clear.

**Flash point** : Closed cup: 25°C (77°F).

**Relative density** : 0.974 (Water = 1)

**Vapour density** : The highest known value is 5.5 (Air = 1) (2-butoxyethyl acetate). Weighted average: 4.11 (Air = 1)

**Lower explosion limit** : The greatest known range is Lower: 0.9% Upper: 8.5% (2-butoxyethyl acetate)

**Solubility** : Insoluble in cold water, hot water.

## 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

## 11. Toxicological information

There is no data available on the preparation itself. 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 2 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include 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 non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Contains (Hydroxyphenyl-benzotriazole derivate I, Hydroxyphenyl-benzotriazole derivate II, Bispentamethylpiperidylsebacate, Methylpentamethylpiperidylsebacate). May produce an allergic reaction.

## 12. Ecological information

There is no data available on the preparation itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

### Ecotoxicity data

<u>Product/ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
<b>Date of issue</b> : 1/12/2006.	/	502102	/

## 12. Ecological information

n-butyl acetate	Pimephales promelas (EC50)	48 hour/hours	19 mg/l
	Pimephales promelas (LC50)	96 hour/hours	18 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	100 mg/l
Heptan-2-one	Pimephales promelas (LC50)	96 hour/hours	131 mg/l
2-Butoxyethyl acetate	Daphnia (EC50)	48 hour/hours	37 mg/l
	Fish (LC50)	24 hour/hours	1650 mg/l
	Algae (EC50)	72 hour/hours	>500 mg/l
Hydroxyphenyl-benzotriazole derivative I	Fish (LC50)	96 hour/hours	2.8 mg/l
	Daphnia (EC50)	96 hour/hours	3.8 mg/l
	Algae (EC50)	96 hour/hours	>9 mg/l
Hydroxyphenyl-benzotriazole derivative II	Fish (LC50)	96 hour/hours	2.8 mg/l
	Daphnia (EC50)	96 hour/hours	3.8 mg/l
	Algae (EC50)	96 hour/hours	>9 mg/l
Bispentamethylpiperidylsebacate	Fish (LC50)	96 hour/hours	7.9 mg/l
	Daphnia (EC50)	96 hour/hours	20 mg/l
Methylpentamethylpiperidylsebacate	Fish (LC50)	96 hour/hours	7.9 mg/l
	Daphnia (EC50)	96 hour/hours	20 mg/l

### Ecological information

#### Persistence/degradability

<u>Product/ingredient name</u>	<u>BOD<sub>5</sub></u>	<u>COD</u>	<u>ThOD</u>
n-butyl acetate	0.15 to 0.5 g O <sub>2</sub> /g	2.32 g O <sub>2</sub> /g	2.21 g O <sub>2</sub> /g
Heptan-2-one	1.77 g O <sub>2</sub> /g	2.42 g O <sub>2</sub> /g	-
2-Butoxyethyl acetate	2 g O <sub>2</sub> /g [20 d]	-	2.1 g O <sub>2</sub> /g

<u>Product/ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
n-butyl acetate	-	-	Not readily
Heptan-2-one	-	-	Readily

## 13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

## 14. Transport information

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Land - road/railway

<b>UN number</b>	: 1263
<b>Transport document name</b>	: Paint (n-butyl acetate)
<b>Special provision 640</b>	: E
<b>ADR/RID Class</b>	: 3
<b>Packing group</b>	: III
<b>ADR/RID Label</b>	:



### Sea

<b>UN number</b>	: 1263
<b>Proper shipping name</b>	: Paint (n-butyl acetate)

## 14. Transport information

**Special provisions** : Not available.  
**IMDG Class** : 3  
**Packing group** : III  
**IMDG Label** :



**Marine pollutant** : No.  
**Emergency schedules (EmS)** : 3-05

### Air

**UN number** : 1263  
**Proper shipping name** : Paint (n-butyl acetate)  
**Special provisions** : Not available.  
**ICAO/IATA Classification** : 3  
**Packing group** : III

The "viscosity exemption" provisions do not apply to air transport.

**ICAO/IATA label** :



### Inland waterways

**UN number** : 1263  
**Proper shipping name** : Paint (n-butyl acetate)  
**ADNR Classification** : 3  
**Packing group** : III  
**ADNR Label** :



## 15. Regulatory information

**EU regulations** : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

**Risk phrases** : R10- Flammable.  
 R66- Repeated exposure may cause skin dryness or cracking.  
 R67- Vapours may cause drowsiness and dizziness.  
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S23- Do not breathe vapour spray.  
 S24- Avoid contact with skin.  
 S51- Use only in well-ventilated areas.  
 S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional warning phrases** : Contains (Hydroxyphenyl-benzotriazole derivate I, Hydroxyphenyl-benzotriazole derivate II, Bispentamethylpiperidylsebacate, Methylpentamethylpiperidylsebacate). May produce an allergic reaction.

## 15. Regulatory information

**Industrial use** : 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.

## 16. Other information

**CEPE Classification** : 1

**Full text of R-phrases referred to in sections 2 and 3 - Europe** : R10- Flammable.  
R20/21- Harmful by inhalation and in contact with skin.  
R20/22- Harmful by inhalation and if swallowed.  
R43- May cause sensitisation by skin contact.  
R66- Repeated exposure may cause skin dryness or cracking.  
R67- Vapours may cause drowsiness and dizziness.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

**Date of issue** : 1/12/2006.

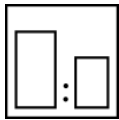
**Version** : 1.6

### Notice to reader

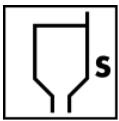
*The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.*

## C160 Clear Coat HS+

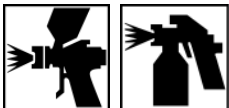
### APPLICATION DATA



**Mixing Ratio** : 2:1 (Clear:Hardener)



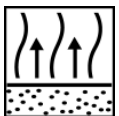
**Application viscosity** : Airspray (sec) : 17-18  
**DINCUP 4mm/20°C** : Pressure tank (sec) : -  
 : Airless (sec) : -



	<u>Nozzle diameter (mm)</u>	<u>Spraying pressure (bar)</u>
Gravity feed	-	-
Suction feed	-	-
Pressure tank	-	-
Airless	-	-
HVLP / LVLP	1,2-1,3 / 1,3-1,5	See info manufacturer
HR	-	See info manufacturer



**Spray coats / Layer thickness (µm)** : 1 / 40-60



**Flash-off (min)** : 5-10



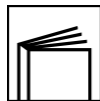
**Drying time (min)** : 20°C : 1  
 : 60°C Obj. : 30



**Potlife (min)** : 20°C : 1h

The technical data in these publications are based on our present knowledge and give you an idea of the various applications without obligations.



**C160 Clear Coat HS+****PRODUCT INFO**

- Area of application** : C160 to be applied over Octobase ECO. This lacquer has a good gloss and through drying. C160 is non-yellowing.
- Chemical base** : Clear polyurethane finish based on low viscous hydroxyacrylic resins.
- General qualities** : Non-yellowing high-gloss finish. Very easy to use (too thick layers can negatively influence the drying process).
- Product group according to CEPE.** : Multi layer finishing: Baselayer and Clear. Max.VOC-amount in this group 420 g/L: average weight of the Base layer and Clear layer (ready to use) according to European legislation; Apart from this what also must apply is: 480 g/L: ready to use Base or Clear as lose components.
- Max. VOC content in this group in accordance with European legislation.**
- Auxiliary materials** : H160, TA950, AE001 for special purposes
- VOC content (ASTM-D3960-69) (g/l)** : <480 (ready to use clear). <420 average weight Octobase ECO and Clear; ready to use mixtures).

<b>Physical properties</b>	<b>Specific gravity (kg/l)</b>	: 0.974 (Water = 1)
	<b>Flash point</b>	: Closed cup: 25°C (77°F).
	<b>Vol.% solids</b>	: 52
	<b>Economy</b>	: 11 m <sup>2</sup> /L/50 µm
	<b>Gloss</b>	: High gloss
	<b>Colour</b>	: Clear.

- Substrates** : See info Octobase ECO.
- Undercoats** : n/a
- Finishing materials** : n/a
- Cleaning the equipment** : TR51 Gun Cleaner
- Storage life (years)** : min. 2  
(Under normal storage conditions and unopened tins).

The technical data in these publications are based on our present knowledge and give you an idea of the various applications without obligations.