

SAFETY DATA SHEET



C60 Clear Coat 2K

1. Identification of the substance/preparation and company/undertaking

Product name and/or code : C60 Clear Coat 2K
Area of application : Vehicle 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
Xylene	1330-20-7	12.5 - 25	215-535-7	R10 Xn; R20/21 Xi; R38
Solvent naphtha (petroleum), light arom.	64742-95-6	5 - 12.5	265-199-0	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53
Ethylbenzene	100-41-4	1 - 5	202-849-4	F; R11 Xn; R20
2-Methoxy-1-methylethyl acetate	108-65-6	1 - 5	203-603-9	R10 Xi; R36
Hydroxyphenyl-benzotriazole derivat I	104810-48-2	0 - 1		R43 N; R51/53
Hydroxyphenyl-benzotriazole derivat II	104810-47-1	0 - 1		R43 N; R51/53
Bispentamethylpiperidylsebacate	41556-26-7	0 - 1	255-437-1	R43 N; R50/53
See section 16 for the full text of the R-phrases declared above				

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
Xn; R20/21
R66
R52/53
- Physical/chemical hazards** : Flammable
- Human health hazards** : Harmful by inhalation and in contact with skin.
Repeated exposure may cause skin dryness or cracking.
- Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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, CO₂, 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.

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.

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	ACGIH TLV (United States, 9/2004). Notes: 1998 Adoption. STEL: 200 ppm 15 minute/minutes. Form: All forms TWA: 150 ppm 8 hour/hours. Form: All forms
Xylene	EU OEL (Europe, 6/2000). Skin STEL: 442 mg/m ³ 15 minute/minutes. Form: All forms STEL: 100 ppm 15 minute/minutes. Form: All forms TWA: 221 mg/m ³ 8 hour/hours. Form: All forms TWA: 50 ppm 8 hour/hours. Form: All forms
Solvent naphtha (petroleum), light arom.	EU OEL (Europe, 2003). TWA: 20 ppm 8 hour/hours. TWA: 100 mg/m ³ 8 hour/hours.
Ethylbenzene	EU OEL (Europe, 6/2000). Skin

8. Exposure controls/personal protection

2-Methoxy-1-methylethyl acetate

STEL: 884 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 200 ppm 15 minute/minutes. Form: All forms
 TWA: 442 mg/m³ 8 hour/hours. Form: All forms
 TWA: 100 ppm 8 hour/hours. Form: All forms
EU OEL (Europe, 6/2000). Skin Notes: Indicative
 STEL: 550 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 100 ppm 15 minute/minutes. Form: All forms
 TWA: 275 mg/m³ 8 hour/hours. Form: All forms
 TWA: 50 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.
- Skin and body** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
- Hands** : For prolonged or repeated handling, use gloves: nitrile.
- 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: 29°C (84.2°F).
- Viscosity** : Kinematic (40C): 6 cSt
- Specific gravity** : 0.965 (Water = 1)
- Vapour density** : 3 kPa
- Lower explosion limit** : The greatest known range is LOWER: 1.5% UPPER: 10.8% (1-Methoxy-2-propanol 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,

11. Toxicological information

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). 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>
n-butyl acetate	Pimephales promelas (LC50)	96 hour/hours	66 mg/l
	Pimephales promelas (LC50)	24 hour/hours	205 mg/l
	Lepomis macrochirus (EC50)	72 hour/hours	675 mg/l
Xylene	Oncorhynchus mykiss (LC50)	96 hour/hours	3.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	8.2 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	8.6 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	12 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	13.3 mg/l
	Pimephales promelas (LC50)	96 hour/hours	13.4 mg/l
Solvent naphtha (petroleum), light arom.	Fish (LC50)	96 hour/hours	18 mg/l
	Daphnia (EC50)	48 hour/hours	21.3 mg/l
	Daphnia magna (EC50)	48 hour/hours	2.93 mg/l
	Daphnia magna (EC50)	48 hour/hours	2.97 mg/l
Ethylbenzene	Selenastrum capricornutum (EC50)	48 hour/hours	7.2 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	4.2 mg/l
	Pimephales promelas (LC50)	96 hour/hours	9.09 mg/l
	Poecilia reticulata (LC50)	96 hour/hours	9.6 mg/l
	Fish (LC50)	96 hour/hours	161 mg/l
	Fish (LC50)	96 hour/hours	2.8 mg/l
	Daphnia (EC50)	96 hour/hours	3.8 mg/l
Hydroxyphenyl-benzotriazole derivate I	Algae (EC50)	96 hour/hours	>9 mg/l
	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 derivate 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

Ecological information

Persistence/degradability

<u>Product/ingredient name</u>	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>
n-butyl acetate	0.15 to 0.5 g O ₂ /g	2.32 g O ₂ /g	2.21 g O ₂ /g

<u>Product/ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
n-butyl acetate	-	-	Not 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

Land - road/railway

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



Sea

UN number : 1263
Proper shipping name : Paint (n-butyl acetate)
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)
ICAO/IATA Classification : 3
Packing group : III
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 labelled as follows, in accordance with local regulations:

Hazard symbol/symbols :



Harmful

Risk phrases :

R10- Flammable.
R20/21- Harmful by inhalation and in contact with skin.
R66- Repeated exposure may cause skin dryness or cracking.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases :

S23- Do not breathe vapour spray.
S36/37- Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S51- Use only in well-ventilated areas.
S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains :

Xylene

Other EU regulations

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

EU statistical classification (Tariff Code) : 32082090

16. Other information

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - Europe

R11- Highly flammable.
R10- Flammable.
R20- Harmful by inhalation.
R20/21- Harmful by inhalation and in contact with skin.
R65- Harmful: may cause lung damage if swallowed.
R36- Irritating to eyes.
R37- Irritating to respiratory system.
R38- Irritating to skin.
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 according to EU Directive 91/155/EEC and its amendments.

Date of issue : 5/24/2005.

Version : 1.5

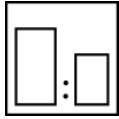
Notice to reader

16. Other information

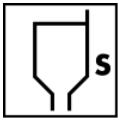
The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary 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.

C60 Clear Coat 2K

APPLICATION DATA



Mixing Ratio : 2:1 with 2K/MS Hardeners.



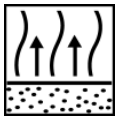
Application viscosity : Airspray (sec) : 15
DINCUP 4mm/20°C : Pressure tank (sec) : -
 : Airless (sec) : -
 -



	<u>Nozzle diameter (mm)</u>	<u>Spraying pressure (bar)</u>
Gravity feed	1,3-1,5	3,5-4,5
Suction feed	1,4-1,6	3,5-4,5
Pressure tank	1,0-1,2	3,5-4,5
Airless	-	-
HVLP / LVLP	1,3-1,4	See info manufacturer
HR	-	See info manufacturer



Spray coats / Layer thickness : 2-3 / -
 (µm)



Flash-off (min) : 5-10

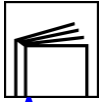


Drying time (min) : 20°C : 12h
 : 60°C Obj. : 30



Potlife (min) : 20°C : 4h-6h

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

C60 Clear Coat 2K**PRODUCT INFO**

- Area of application** : For application as a clear top coat over 500 Series. Suitable for passenger cars.
- Chemical base** : Clear polyurethane varnish based on highly resistant hydroxy acrylate resins.
- General qualities** : 2K Clear Coat is a non-yellowing high gloss clear finish that is very easy to use. Can be both air-dried and forced-dried. Tip: Use 2K Hardener Air Dry only for spot-repairs at lower temperatures.
- 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 : H13/H14/H15/H16, H81, H34/H35/H36, TA900/TA910/TA920, AE001, AS004/AS006

VOC content (ASTM-D3960-69) (g/l) : >480 (ready to use clear)

Physical properties	Specific gravity (kg/l)	: 0.965 (Water = 1)
	Flash point	: Closed cup: 29°C (84.2°F).
	Vol.% solids	: 40
	Economy	: 7 m ² /L/50 µm
	Gloss	: High gloss
	Colour	: Clear.

Substrates : See Series 500. Sanded and degreased old paintwork.

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.