



This product is for the professional painting of vehicles only after reference to the manufacturer's data sheet.

SAFETY DATA SHEET

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

Product name and/or code : **Hardener for 2K Plastic Primer Dark Grey**

Manufacturer : Akzo Nobel Car Refinishes bv
Rijksstraatweg 31
2171 AJ Sassenheim
The Netherlands
Phone: +31 (0)71 308 6944
http://www.sikkenscr.com

Emergency telephone number of the company : + 31 (0)71 308 6944

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 no.	%	EC number	Classification
phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'- [(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] xylene	25036-25-3	25 - 50		Xi; R36/38 R43
	1330-20-7	10 - 25	215-535-7	R10 Xn; R20/21 Xi; R38
Butan-1-ol	71-36-3	10 - 25	200-751-6	R10 Xn; R22 Xi; R41, R37/38 R67
1-methoxy-2-propanol ethylbenzene	107-98-2	2.5 - 10	203-539-1	R10
	100-41-4	2.5 - 10	202-849-4	F; R11 Xn; R20
Butanone	78-93-3	2.5 - 10	201-159-0	F; R11 Xi; R36 R66, R67
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
Xi; R38, R41
R43

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>
Xylene	EH40-OES (United Kingdom (UK), 5/2003). Skin STEL: 441 mg/m ³ 15 minute(s). Form: All forms STEL: 100 ppm 15 minute(s). Form: All forms TWA: 220 mg/m ³ 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms
Butan-1-ol	EH40-OES (United Kingdom (UK), 5/2003). Skin STEL: 154 mg/m ³ 15 minute(s). Form: All forms STEL: 50 ppm 15 minute(s). Form: All forms
1-Methoxy-2-propanol	EH40-OES (United Kingdom (UK), 5/2003). Skin STEL: 560 mg/m ³ 15 minute(s). Form: All forms STEL: 150 ppm 15 minute(s). Form: All forms TWA: 375 mg/m ³ 8 hour(s). Form: All forms TWA: 100 ppm 8 hour(s). Form: All forms
Ethylbenzene	EH40-OES (United Kingdom (UK), 5/2003). Skin STEL: 552 mg/m ³ 15 minute(s). Form: All forms STEL: 125 ppm 15 minute(s). Form: All forms TWA: 441 mg/m ³ 8 hour(s). Form: All forms TWA: 100 ppm 8 hour(s). Form: All forms
Butanone	EH40-OES (United Kingdom (UK), 5/2003). Skin STEL: 899 mg/m ³ 15 minute(s). Form: All forms STEL: 300 ppm 15 minute(s). Form: All forms TWA: 600 mg/m ³ 8 hour(s). Form: All forms TWA: 200 ppm 8 hour(s). 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

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.
Flash point : Closed cup: 21°C (69.8°F).
Viscosity : Kinematic: 408.16 cSt
Relative density : 0.98 (Water = 1)
Vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.22 (Air = 1)
Lower explosion limit : Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

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 (phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]). May produce an allergic reaction.

Acute toxicity

Conclusion/Summary :

Chronic toxicity

Conclusion/Summary :

Carcinogenicity

Conclusion/Summary :

Mutagenicity

Conclusion/Summary :

Teratogenicity

Conclusion/Summary :

Reproductive toxicity

Conclusion/Summary :

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 not classified as dangerous for the environment.

Aquatic ecotoxicity

Conclusion/Summary :

Biodegradability

Conclusion/Summary :

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

UN number : UN1263
Transport document name : PAINT RELATED MATERIAL
ADR/RID Class : 3
Packing group : III
ADR/RID Label :



Sea

UN number : UN1263
Proper shipping name : PAINT RELATED MATERIAL
Special provisions :
IMDG Class : 3
Packing group : III
IMDG Label :



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

Air

UN number : UN1263
Proper shipping name : PAINT RELATED MATERIAL
Special provisions :
ICAO/IATA Classification : 3
Packing group : III

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

ICAO/IATA label :



Inland waterways

UN number : UN1263
Proper shipping name : PAINT RELATED MATERIAL
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 or symbols :



Date of issue : 31 March 2007
Version number : 7

Risk phrases	: Harmful : R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R38- Irritating to skin. R41- Risk of serious damage to eyes. R43- May cause sensitisation by skin contact.
Safety phrases	: S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
Contains	: phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] Xylene
VOC content (industrial use)	: Contains 42.4815 wt% VOC. Contains 0 wt% carbon as VOC. This product contains a VOC or VOC's. You may be subject to environmental control legislation under Integrated Pollution Control (IPC) or Integrated Pollution Prevention and Control (IPPC) Regulations. Contact your local Environmental Agency Office if in doubt.

16. Other information

CEPE Classification	: 1
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R11- Highly flammable. R10- Flammable. R20- Harmful by inhalation. R20/21- Harmful by inhalation and in contact with skin. R22- Harmful if swallowed. R36- Irritating to eyes. R36/38- Irritating to eyes and skin. R37/38- Irritating to respiratory system and skin. R38- Irritating to skin. R41- Risk of serious damage to eyes. R43- May cause sensitisation by skin contact. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness.

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

Date of issue : 3/31/2007.

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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