



# SAFETY DATA SHEET

**Aerodur® Barrier Primer 37045, white**

**Code:** 37111/000000

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

**Product name and/or code** : Aerodur® Barrier Primer 37045, white

**Manufacturer** : Akzo Nobel Aerospace Coatings  
Rijksstraatweg 31  
2171 AJ Sassenheim  
P.O. Box 3  
2170 BA Sassenheim  
The Netherlands

Phone: + 31 (0)71 3083382

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

**Product use** : FOR INDUSTRIAL USE ONLY

## 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
2-methoxy-1-methylethyl acetate	108-65-6	10 - 25	203-603-9	R10 Xi; R36
Butanone	78-93-3	2.5 - 10	201-159-0	F; R11 Xi; R36 R66, R67
xylene	1330-20-7	2.5 - 10	215-535-7	R10 Xn; R20/21 Xi; R38
toluene	108-88-3	2.5 - 10	203-625-9	F; R11 Repr. Cat. 3; R63 Xn; R48/20, R65 Xi; R38 R67
4-Methylpentan-2-one	108-10-1	1 - 2.5	203-550-1	F; R11 Xn; R20 Xi; R36/37 R66
1-methoxy-2-propanol	107-98-2	1 - 2.5	203-539-1	R10
Isobutyl acetate	110-19-0	1 - 2.5	203-745-1	F; R11 R66
ethylbenzene	100-41-4	1 - 2.5	202-849-4	F; R11 Xn; R20
Solvent naphtha (petroleum), heavy arom.	64742-94-5	0 - 1	265-198-5	Xn; R65 R66, R67 N; R51/53
2-methoxypropyl acetate	70657-70-4	0 - 1	274-724-2	R10 Repr. Cat. 2; R61 Xi; R37
See section 16 for the full text of the R-phrases declared above				

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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** : F; R11  
Xi; R36

**Physical/chemical hazards** : Highly flammable.

**Human health hazards** : Irritating to eyes.

**Additional warning phrases** : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet.

The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

### 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.

Eating, drinking and smoking should be prohibited in areas 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>
2-methoxy-1-methylethyl acetate	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 548 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 100 ppm 15 minute(s). WEL 8 hrs limit: 274 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 50 ppm 8 hour(s).
Butanone	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 899 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 300 ppm 15 minute(s). WEL 8 hrs limit: 600 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 200 ppm 8 hour(s).
xylene	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 441 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 100 ppm 15 minute(s). WEL 8 hrs limit: 220 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 50 ppm 8 hour(s).
toluene	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 574 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 150 ppm 15 minute(s). WEL 8 hrs limit: 191 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 50 ppm 8 hour(s).
4-Methylpentan-2-one	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 416 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 100 ppm 15 minute(s). WEL 8 hrs limit: 208 mg/m <sup>3</sup> 8 hour(s).

1-methoxy-2-propanol	WEL 8 hrs limit: 50 ppm 8 hour(s). <b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 560 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 150 ppm 15 minute(s). WEL 8 hrs limit: 375 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 100 ppm 8 hour(s).
Isobutyl acetate	<b>EH40-WEL (United Kingdom (UK), 9/2006).</b> WEL 15 min limit: 903 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 187 ppm 15 minute(s). WEL 8 hrs limit: 724 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 150 ppm 8 hour(s).
ethylbenzene	<b>EH40-WEL (United Kingdom (UK), 9/2006). Skin</b> WEL 15 min limit: 552 mg/m <sup>3</sup> 15 minute(s). WEL 15 min limit: 125 ppm 15 minute(s). WEL 8 hrs limit: 441 mg/m <sup>3</sup> 8 hour(s). WEL 8 hrs limit: 100 ppm 8 hour(s).

**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.

**Skin and body**

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

**Hands****Gloves**

: For prolonged or repeated handling, use the following type of gloves:

Recommended: foil

May be used: fluor rubber, butyl rubber

Not recommended: nitrile rubber, neoprene, PVC

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

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**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**

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: white
<b>Flash point</b>	: Closed cup: 15°C (59°F)
<b>Viscosity</b>	: Kinematic: 12.1673 cm <sup>2</sup> /s (1216.73 cSt)
<b>Relative density</b>	: 1.315
<b>VOC content</b>	: 587

**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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Intraperitoneal	Rat	607 mg/kg	-
xylene	LD50 Oral	Rat	2737 mg/kg	-
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Intraperitoneal	Rat	2459 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
toluene	LD50	Rat	1700 mg/kg	-
	Subcutaneous LD50 Dermal	Rabbit	14100 uL/kg	-
	LD50 Intraperitoneal	Rat	1332 mg/kg	-
	LD50 Intravenous	Rat	1960 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-
	LD50 Unreported	Rat	6900 mg/kg	-
	LDLo Intraperitoneal	Rat	2.5 mL/kg	-
	TDL0 Intraperitoneal	Rat	1 g/kg	-
	TDL0 Intraperitoneal	Rat	750 mg/kg	-
	TDL0 Intraperitoneal	Rat	600 mg/kg	-
4-methylpentan-2-one	TDL0 Oral	Rat	400 mg/kg	-
	LD Dermal	Rabbit	900 mg/kg	-
	LD50 Intraperitoneal	Rat	800 mg/kg	-
	LD50 Oral	Rat	2080 mg/kg	-
1-methoxy-2-propanol	LD50 Oral	Rat	4600 mg/kg	-
	TDL0 Oral	Rat	500 mg/kg	-
	LD50 Intraperitoneal	Rat	3720 mg/kg	-
	LD50 Dermal	Rabbit	13 g/kg	-
isobutyl acetate	LD50 Intravenous	Rat	4200 mg/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
	LD50 Subcutaneous	Rat	7800 mg/kg	-
	LDLo Oral	Rat	3739 mg/kg	-
	LD50 Dermal	Rabbit	>17400 mg/kg	-

ethylbenzene	LD50 Oral	Rat	13400 mg/kg	-
	LD50 Dermal	Rabbit	17800 uL/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
	TDLo	Rat	1062 mg/kg	-
solvent naphtha (petroleum), heavy arom.	Intraperitoneal			
	LD50 Dermal	Rabbit	>2 mL/kg	-
	LDLo Oral	Rat	5 mL/kg	-

**Conclusion/Summary** : Not available.

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

## 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 but contains a substance or substances dangerous for the environment. See section 2 for details.

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
butanone	Intoxication	Acute EC50 5091 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 3220 mg/L	Fish	96 hours
xylene	Mortality	Acute LC50 13.4 mg/L	Fish	96 hours
	Mortality	Acute LC50 13.3 mg/L	Fish	96 hours
	Mortality	Acute LC50 12 mg/L	Fish	96 hours
	Mortality	Acute LC50 8.6 mg/L	Fish	96 hours
	Mortality	Acute LC50 8.2 mg/L	Fish	96 hours
toluene	Mortality	Acute LC50 3.3 mg/L	Fish	96 hours
	Behavior	Acute EC50 6.78 mg/L	Fish	48 hours
	Intoxication	Acute EC50 6.56 mg/L	Daphnia	48 hours
	Intoxication	Acute EC50 6 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 6.78 mg/L	Fish	96 hours
4-methylpentan-2-one	Mortality	Acute LC50 12.6 mg/L	Fish	96 hours
	Mortality	Acute LC50 5.8 mg/L	Fish	96 hours
	Population	Acute EC50 2000 mg/L	Algae	48 hours
	Population	Acute EC50 980 mg/L	Algae	48 hours

	Mortality	mg/L Acute LC50 540	Fish	96 hours
	Mortality	mg/L Acute LC50 537	Fish	96 hours
	Mortality	mg/L Acute LC50 505	Fish	96 hours
ethylbenzene	Population	mg/L Acute EC50 7.2	Algae	48 hours
	Intoxication	mg/L Acute EC50 2.97	Daphnia	48 hours
	Intoxication	mg/L Acute EC50 2.93	Daphnia	48 hours
	Mortality	mg/L Acute LC50 4.2	Fish	96 hours
	Mortality	mg/L Acute LC50 9.09	Fish	96 hours
	Mortality	mg/L Acute LC50 9.6	Fish	96 hours

**Conclusion/Summary** : Not available.

**Biodegradability**

**Conclusion/Summary** : Not available.

## 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  
**ADR/RID Class** : 3  
**Packing group** : III  
**ADR/RID Label** :



### Sea

**UN number** : UN1263  
**Proper shipping name** : PAINT  
**Special provisions** : Not available.  
**IMDG Class** : 3  
**Packing group** : III  
**IMDG Label** :



**Marine pollutant** : No.

**Emergency schedules (EmS)** : F-E, S-E

### Air

**UN number** : UN1263

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**Proper shipping name** : PAINT  
**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** : UN1263  
**Proper shipping name** : PAINT  
**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:

**Hazard symbol or symbols** : 

Highly flammable, Irritant

**Risk phrases** : R11- Highly flammable.  
R36- Irritating to eyes.

**Safety phrases** : S23- Do not breathe vapour or spray.  
S51- Use only in well-ventilated areas.

**Additional warning phrases** : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet.

**EU statistical classification (Tariff Code)** : 32089019

**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 - United Kingdom (UK)** : R11- Highly flammable.  
R10- Flammable.  
R61- May cause harm to the unborn child.  
R63- Possible risk of harm to the unborn child.  
R20- Harmful by inhalation.  
R20/21- Harmful by inhalation and in contact with skin.  
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R65- Harmful: may cause lung damage if swallowed.  
R36- Irritating to eyes.  
R37- Irritating to respiratory system.  
R38- Irritating to skin.  
R36/37- Irritating to eyes and respiratory system.  
R66- Repeated exposure may cause skin dryness or cracking.



R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic 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** : 3/16/2007.

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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