

**SAFETY DATA SHEET****Aerodur® Finish C 21/100 UVR, grey BAC 707 - M 9001**

Code: 77397/054569

1. Identification of the substance/preparation and company/undertaking**Identification of the substance or preparation**Product name and/or code : **Aerodur® Finish C 21/100 UVR, grey BAC 707 - M 9001****Company/undertaking identification**

Manufacturer : AkzoNobel Aerospace Coatings BV
Rijksstraatweg 31
2171 AJ Sassenheim
P.O. Box 3
2170 BA Sassenheim
The Netherlands

e-mail address of person responsible for this SDS : ANACMSDS@AKZONOBEL.com

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

2. Hazards identification

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

Classification : R10
Xi; R36
R52/53

Physical/chemical hazards : Flammable.**Human health hazards** : Irritating to eyes.**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Additional warning phrases** : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.**3. Composition/information on ingredients**

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or assigned an occupational exposure limit.

Chemical name	CAS number	%	Number	Classification
2-methoxy-1-methylethyl acetate	108-65-6	25 - 50	203-603-9	R10 Xi; R36 [1] [2]
cyclohexanone	108-94-1	2.5 - 10	203-631-1	R10 Xn; R20 [1] [2]
n-butyl acetate	123-86-4	2.5 - 10	204-658-1	R10 R66, R67 [1] [2]
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	0 - 1	255-437-1	R43 N; R50/53 [1]
Stoddart solvent	8052-41-3	0 - 1	232-489-3	Xn; R65 R66 N; R51/53 [1]
2-methoxypropyl acetate	70657-70-4	0 - 1	274-724-2	R10 Repr. Cat. 2; R61 Xi; R37 [1]
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	0 - 1	280-060-4	R43 N; R50/53 [1]
See section 16 for the full text of the R-phrases declared above				

Date of issue : 11/25/2009.

Page: 1/8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

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. If unconscious, place in recovery position and seek medical advice.
- 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.
- 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.
- Extinguishing media not to be used** : Do not use water jet.
- Special exposure hazards** : 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 drains or watercourses.

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. 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).
- Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
- Methods for cleaning up** : Preferably clean with a detergent. Avoid using solvents.

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.
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 dry, cool and well-ventilated area. Keep away from heat and direct sunlight.
Keep away from sources of ignition. 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

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 548 mg/m ³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 274 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).
cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 20 ppm 15 minute(s). TWA: 10 ppm 8 hour(s).
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 966 mg/m ³ 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 724 mg/m ³ 8 hour(s). TWA: 150 ppm 8 hour(s).

- Exposure controls** : 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.

Occupational exposure controls

- 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

Not recommended: nitrile rubber, neoprene, butyl rubber, PVC, fluor rubber

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

Physical state	: Liquid.
Colour	: grey BAC 707 - M 9001
Flash point	: Closed cup: 44°C (111.2°F)
Viscosity	: Kinematic: 1.764291 cm ² /s (176.4291 cSt)
Relative density	: 1.417
Vapour density	: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.45 (Air = 1)
Explosion limits	: Greatest known range: Lower: 1.3% Upper: 9.4% (cyclohexanone)
VOC content	: 471

10. Stability and reactivity

Conditions to avoid	: Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.
Materials to avoid	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Toxicokinetics

Distribution	: Contains material which may cause damage to the following organs: kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
---------------------	--

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 3 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. 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 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

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	-
cyclohexanone	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50	Rat	1130 mg/kg	-
	Intraperitoneal			
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
n-butyl acetate	LD50	Rat	2170 mg/kg	-
	Subcutaneous			
	LDLo Intravenous	Rat	568 mg/kg	-
	LD50 Dermal	Rabbit	>17600 mg/kg	-
stoddard solvent	LD50 Oral	Rat	10768 mg/kg	-
	LC50 Inhalation	Rat	390 ppm	4 hours
	Vapour			
stoddard solvent	LD Dermal	Rabbit	>3 g/kg	-
	LD Oral	Rat	>5 g/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 classified for eco-toxicological properties accordingly. See Sections 3 and 15 for details.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
cyclohexanone	-	Acute LC50 732 mg/L	Fish	96 hours
	-	Acute LC50 630 mg/L	Fish	96 hours
	-	Acute LC50 527 mg/L	Fish	96 hours
	-	Acute LC50 732000 to 770000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 29 to 30 days - 23.8 mm - 0.221 g	96 hours
	-	Acute LC50 630000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 0.12 g	96 hours
	-	Acute LC50 527000 to 578000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 30 days - 20.2 mm - 0.127 g	96 hours
	-	Acute EC50 19 mg/L	Fish	48 hours
	-	Acute LC50 100 mg/L	Fish	96 hours
	-	Acute LC50 18 mg/L	Fish	96 hours
	-	Acute LC50 185000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
n-butyl acetate	-	Acute LC50 100000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
	-	Acute LC50 62000 ug/L	Fish - Zebra danio - Danio rerio	96 hours
	-	Acute LC50 32000 ug/L Marine water	Crustaceans - Brine shrimp - Artemia salina - Nauplii	48 hours
	-	Acute LC50 18000 to 19000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 31 to 32 days - 21.6 mm - 0.175 g	96 hours

Conclusion/Summary : Not available.

Persistence/degradability

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
 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

Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

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

Hazard symbol or symbols

:



Irritant

Risk phrases : R10- Flammable.
 R36- Irritating to eyes.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases	: S23- Do not breathe vapour or spray. S51- Use only in well-ventilated areas.
Detergents - Regulation (EC) No 907/2006	: Not applicable.
Other EU regulations	
Additional warning phrases	: Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.
Additional warning phrases (CEPE)	: Not applicable.
EU statistical classification (Tariff Code)	: 32081090

The information in this Safety Data Sheet is required pursuant to Annex II to Regulation (EC) No 1907/2006.

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

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R10- Flammable. R61- May cause harm to the unborn child. R20- Also harmful by inhalation. R65- Also harmful: may cause lung damage if swallowed. R36- Irritating to eyes. R37- Irritating to respiratory system. 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/Date of revision : 11/25/2009.

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.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.

Head Office

AkzoNobel Aerospace Coatings bv, Rijksweg 31 2171 AJ Sassenheim. <http://www.akzonobel.com/aerospace>

Version 0.13

Page: 7/8

Date of issue : 11/25/2009.

Page: 7/8

