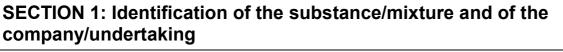
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

**AkzoNobel Aerospace Coatings** 

# **SAFETY DATA SHEET**

**Metaflex® SP 1050 Pretreatment** 



**1.1 Product identifier Product name** 

: Metaflex® SP 1050 Pretreatment

1.2 Relevant identified uses of the substance or mixture and uses advised against Not applicable.

### 1.3 Details of the supplier of the safety data sheet

	Akzo Nobel Aerospace Coatings 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		
1.4 Emergency telephone number			

<u>Supplier</u>	
Telephone number	: + 31 (0)71 308 6944
Hours of operation	: 24 hours

# **SECTION 2: Hazards identification**

.....

2.1 Classification of the subst	ance or mixture	
Product definition	: Mixture	
Classification according to D	virective 1999/45/EC [DPD]	
The product is not classified a	as dangerous according to Directive 1999/45/EC and its amendments.	
Classification	: Not classified.	
See Section 16 for the full text	of the R phrases or H statements declared above.	
See Section 11 for more detaile	ed information on health effects and symptoms.	
2.2 Label elements		
Risk phrases	: This product is not classified according to EU legislation.	
Safety phrases	: Not applicable.	
Supplemental label elements	: Safety Data Sheet available for professional user on request.	
2.3 Other hazards		
Other hazards which do not result in classification	: Not available.	
Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 1/10



**Code:** Metaflex SP\*

# **SECTION 3: Composition/information on ingredients**

### Substance/mixture

: Mixture

			Class	ification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-(2- butoxyethoxy)ethanol	REACH #: 01- 2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	1-5	Xi; R36	Eye Irrit. 2, H319	[1] [2]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

Version number

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General	<ul> <li>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.</li> </ul>
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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 recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

#### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Exposure to component solvent vapor 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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatments	<ul><li>quantities have been ingested or inhaled.</li><li>No specific treatment.</li></ul>
Date of issue/Date of revis	ion : 8/29/2012.

Metaflex® SP 1050 Pretreatment

Product code : Metaflex SP\*

### **SECTION 4: First aid measures**

See toxicological information (Section 11)

SECTION 5: Firefighting measures				
5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.			
Unsuitable extinguishing media	: Do not use water jet.			
5.2 Special hazards arising f	rom the substance or mixture			
Hazards from the substance or mixture	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.			
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.			
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.			

## SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.
6.2 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.
6.3 Methods and materials for containment and cleaning up	:	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). Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	: Due to the organic solvents content of the preparation:		
	Prevent the creation of flammable or explosive concentrations of va avoid vapor concentrations higher than the occupational exposure I In addition, the product should only be used in areas from which all other sources of ignition have been excluded. Electrical equipment protected to the appropriate standard. Keep away from heat, sparks and flame. No sparking tools should be	imits. naked lights and should be	
Date of issue/Date of revision Version number	: 8/29/2012. : 2	Page: 3/10	

### **SECTION 7: Handling and storage**

	<ul> <li>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.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>Information on fire and explosion protection</li> <li>Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.</li> </ul>
	When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage</li> <li>Keep away from: oxidizing agents, strong alkalis, strong acids.</li> <li>Additional information on storage conditions</li> <li>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.</li> <li>Keep container tightly closed.</li> <li>Keep away from sources of ignition. No smoking. Prevent unauthorized access.</li> <li>Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> </ul>

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredier	nt name	Exposure limit values
2-(2-butoxyethoxy)ethanol		EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 15 ppm 15 minute(s). TWA: 10 ppm 8 hour(s). STEL: 15 mg/m <sup>3</sup> 15 minute(s). TWA: 10 mg/m <sup>3</sup> 8 hour(s).
Recommended monitoring procedures	atmosphere or l of the ventilatior protective equip methods for the	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory ment. Reference should be made to European Standard EN 689 for assessment of exposure by inhalation to chemical agents and ce documents for methods for the determination of hazardous
Derived effect levels No DELs available.		

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 4/10

### **SECTION 8: Exposure controls/personal protection**

### Predicted effect concentrations

No PECs available.

8.2 Exposure controls		
Appropriate engineering 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 vapors below the OEL, suitable respiratory protection must be worn.
Individual protection measured	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Use safety eyewear designed to protect against splash of liquids.
Skin protection		
Hand protection	:	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
Body protection	:	Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Environmental exposure controls	:	Do not allow to enter drains or watercourses.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. : Product Specific Information Color Odor : Characteristic. : Not available. **Odor threshold** : 11 [Basic.] pH Melting point/freezing point : -2°C Initial boiling point and boiling : 104°C range : Closed cup: Not applicable. **Flash point Evaporation rate** : Not available. **Upper/lower flammability or** : Greatest known range: Lower: 0.8% Upper: 9.4% (2-(2-butoxyethoxy)ethanol) **explosive limits** Vapor pressure : 2.3 kPa [20°C] : Highest known value: 5.6 (Air = 1) (2-(2-butoxyethoxy)ethanol). Vapor density **Relative density** : 1010 Solubility(ies) : Easily soluble in the following materials: cold water and hot water. Partition coefficient: n-: Not available. octanol/water : Not available. Auto-ignition temperature **Decomposition temperature** : Not available. Viscosity : Not available. Date of issue/Date of revision : 8/29/2012. : 2 Version number Page: 5/10

Metaflex® SP 1050 Pretreatment

Product code : Metaflex SP\*

### **SECTION 9: Physical and chemical properties**

Explosive properties	: Not available.
Oxidizing properties	: Not available.
VOC content	: 69,5 g/l

#### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity			
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see section 7).		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.		
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.		
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Exposure to component solvent vapor 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.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal LD50 Oral		2700 mg/kg 4500 mg/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
Conclusion/Summary	: Not available.				·
Sensitization					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 6/10

Product code : Metaflex SP\*

### **SECTION 11: Toxicological information**

<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.

#### Other information

: Not available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

There are 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.

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute LC50 1300 mg/L	Fish	96 hours
Conclusion/Summary	: Not available.		

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	0.56	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.
12.5 Results of PBT and v	PvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Do not allow to enter drains or watercourses.

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

### 13.1 Waste treatment methods

### Product Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 7/10

Product code : Metaflex SP\*

### **SECTION 13: Disposal considerations**

Hazardous waste	:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 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.

<u>UN</u>	
Subsidiary class	: -
IMDG	
Subsidiary class	: -
Marine pollutant	: No.
Special provisions	: Not available.
ADR	
Subsidiary class	: -
Environmental hazards	: No.
ADN/ADNR	
Subsidiary class	: -
Environmental hazards	: No.
IATA	
Subsidiary class	: -

Special provisions	: Not available.
This was due to wat we will	And four constructions

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

### **SECTION 15: Regulatory information**

15.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture				
EU Regulation (EC) No. 1907	7 <u>/2006 (REACH)</u>				
Annex XIV - List of substan	ces subject to authorization				
Substances of very high concern					
None of the components are listed.					
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.				
Other EU regulations					
Priority List Chemicals	: Listed				
Integrated pollution prevention and control list (IPPC) - Air	: Not listed				
Integrated pollution prevention and control list (IPPC) - Water	: Not listed				

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 8/10

Product code : Metaflex SP\*

SECTION 15: Regulatory information
------------------------------------

5		,
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.
International regulations		
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed
15.2 Chemical Safety	:	This product contains substances for which Chemical Safety Assessments are still

Assessment

required.

### **SECTION 16: Other information**

EU statistical classification	: 34029010
(Tariff Code)	

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Not classified.		
Full text of abbreviated H statements	: H319 Causes serious	eye irritation.
Full text of classifications [CLP/GHS]	: Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Full text of abbreviated R phrases	: R36- Irritating to eyes.	
Full text of classifications [DSD/DPD]	: Xi - Irritant	
Date of printing	: 8/29/2012.	
Date of issue/ Date of revision	: 8/29/2012.	
Date of previous issue	: 3/28/2012.	
Version	: 2	
Notice to reader		

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 9/10

## **SECTION 16: Other information**

#### 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 Akzo Nobel.

Head Office

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

Date of issue/Date of revision	: 8/29/2012.	
Version number	: 2	Page: 10/10