

This Safety Data Sheet is prepared in accordance with EU Directive 91/155/EC, as amended by Directive 2001/58/EC - United Kingdom (UK)

SAFETY DATA SHEET

Muki Z 3000 - Comp. A



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

Product name and/or code : Muki Z 3000 - Comp. A
 Label No. : 3102
 Supplier/Manufacturer : Jotun Paints (Europe) Ltd.
 Statler Road
 Flixborough, Scunthorpe
 North Lincolnshire
 DN15 8RR
 England

Tel: +44 17 24 40 00 00
 Fax: +44 17 24 40 01 00

Emergency telephone number : Contact National Poison Centre via Hospital or Registered Medical Practitioner
 Product use : Coatings: Solvent-borne.

2. Composition/information on ingredients

Chemical name*	CAS no.	EC number	%	Classification
propan-2-ol	67-63-0	200-661-7	50 - 100	F; R11 Xi; R36 R67
ethanol	64-17-5	200-578-6	10 - 25	F; R11 R10
tetraethyl silicate	78-10-4	201-083-8	2.5 - 10	Xn; R20 Xi; R36/37
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.

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.



Highly flammable



Irritant

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.

Date of issue : 10.02.2006.

Page: 1/5

Muki Z 3000 - Comp. A**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.
- 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.

Ingredient name

Occupational exposure limits

Muki Z 3000 - Comp. A

propan-2-ol

EH40-WEL (United Kingdom (UK), 1/2005).
 STEL: 1250 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 500 ppm 15 minute/minutes. Form: All forms
 TWA: 999 mg/m³ 8 hour/hours. Form: All forms
 TWA: 400 ppm 8 hour/hours. Form: All forms

ethanol

EH40-WEL (United Kingdom (UK), 1/2005).
 TWA: 1920 mg/m³ 8 hour/hours. Form: All forms
 TWA: 1000 ppm 8 hour/hours. Form: All forms

tetraethyl silicate

EH40-WEL (United Kingdom (UK), 1/2005).
 STEL: 260 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 30 ppm 15 minute/minutes. Form: All forms
 TWA: 87 mg/m³ 8 hour/hours. Form: All forms
 TWA: 10 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. Use respiratory mask with charcoal and dust filter when spraying this product, (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter (A2).

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: neoprene or nitrile.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
 For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

Eyes

: Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

Physical state	: Liquid.
Odour	: Characteristic.
Colour	: Various colours.
Flash point	: Closed cup: 13°C (55.4°F).
Density	: 0.8 g/cm ³
Lower explosion limit	: The greatest known range is Lower: 3.3% Upper: 19% (ethanol)
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, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

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.

Ecotoxicity data

Ingredient name

Species

Period

Result

Date of issue

: 10.02.2006.

Page: 3/5

Muki Z 3000 - Comp. A

propan-2-ol

Pimephales promelas (EC50)	48 hour/hours	10000 mg/l
Lepomis macrochirus (LC50)	96 hour/hours	>1400 mg/l
Pimephales promelas (LC50)	96 hour/hours	6550 mg/l
Pimephales promelas (LC50)	96 hour/hours	9640 mg/l
Pimephales promelas (LC50)	96 hour/hours	10400 mg/l
Pimephales promelas (LC50)	96 hour/hours	11130 mg/l
Daphnia magna (EC50)	48 hour/hours	2 mg/l
Daphnia magna (EC50)	48 hour/hours	9.3 mg/l
Daphnia magna (EC50)	48 hour/hours	>100 mg/l
Pimephales promelas (LC50)	96 hour/hours	>100 mg/l
Daphnia magna (LC50)	96 hour/hours	>100 mg/l
Oncorhynchus mykiss (LC50)	96 hour/hours	13000 mg/l

ethanol

13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue (EWC) : 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

14. Transport informationInternational transport regulations

Proper shipping name : Paint
 UN Number : 1263
 Class : 3
 Sub-risk : -
 Packing group : II
 Label :

Additional information

ADR / RID : Hazard identification number: 33
 Special provisions: 640D
 IMDG : Emergency schedules (EmS): F-E, S-E
 Marine pollutant: No.

IATA : -

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

15. Regulatory informationEU regulations

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

Hazard symbol/symbols :



Highly flammable



Irritant

Risk phrases :

: R11- Highly flammable.
 R36- Irritating to eyes.
 R67- Vapours may cause drowsiness and dizziness.

Safety phrases :

: S23- Do not breathe vapour / spray.
 S51- Use only in well-ventilated areas.


Muki Z 3000 - Comp. A**16. Other information**

CEPE Classification : 1
Full text of R-phrases referred to : R11- Highly flammable,
In sections 2 and 3 - United : R10- Flammable,
Kingdom (UK) : R20- Harmful by inhalation.
R36- Irritating to eyes,
R36/37- Irritating to eyes and respiratory system.
R67- Vapours may cause drowsiness and dizziness.

Notice to readerHistory

Date of printing : 10.02.2006.
Date of issue : 10.02.2006.
Version : 4
Prepared by : Jotun Group Product Safety Department

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.

 Indicates information that has changed from previously issued version.

Version

4

Page: 5/5

This Safety Data Sheet is prepared in accordance with EU Directive 91/155/EC, as amended by Directive 2001/58/EC - United Kingdom (UK)

SAFETY DATA SHEET

Muki Z 3000 - Comp. B



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

Product name and/or code : Muki Z 3000 - Comp. B
 Label No. : 3103
 Supplier/Manufacturer : Jotun Paints (Europe) Ltd.
 Stather Road
 Flixborough, Scunthorpe
 North Lincolnshire
 DN15 8RR
 England

Tel: +44 17 24 40 00 00
 Fax: +44 17 24 40 01 00

Emergency telephone number : Contact National Poison Centre via Hospital or Registered Medical Practitioner
 Product use : Coatings, Solvent-borne.

2. Composition/information on ingredients

Chemical name*	CAS no.	EC number	%	Classification
zinc stabilized Xylene	7440-66-6 1330-20-7	231-175-3 215-535-7	25 - 50 10 - 25	N; R50/53 R10 Xn; R20/21 Xi; R38 R10
butan-1-ol	71-36-3	200-751-6	2.5 - 10	Xn; R22 Xi; R37/38, R41 R67
zinc oxide	1314-13-2	215-222-5	1 - 2.5	N; R50/53
ethylbenzene	100-41-4	202-849-4	1 - 2.5	F; R11 Xn; R20 R10
1-methoxy-2-propanol	107-98-2	203-539-1	1 - 2.5	
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.

Flammable.

Harmful by inhalation and in contact with skin.

Irritating to eyes.

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.



Harmful



Dangerous for the 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.

Muki Z 3000 - Comp. B

- 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.
- 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.

Ingredient name

Occupational exposure limits

Muki Z 3000 - Comp. B

Xylene

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 441 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 100 ppm 15 minute/minutes. Form: All forms
 TWA: 220 mg/m³ 8 hour/hours. Form: All forms
 TWA: 50 ppm 8 hour/hours. Form: All forms

butan-1-ol

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 154 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 50 ppm 15 minute/minutes. Form: All forms

ethylbenzene

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 552 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 125 ppm 15 minute/minutes. Form: All forms
 TWA: 441 mg/m³ 8 hour/hours. Form: All forms
 TWA: 100 ppm 8 hour/hours. Form: All forms

1-methoxy-2-propanol

EH40-WEL (United Kingdom (UK), 1/2005). Skin
 STEL: 560 mg/m³ 15 minute/minutes. Form: All forms
 STEL: 150 ppm 15 minute/minutes. Form: All forms
 TWA: 375 mg/m³ 8 hour/hours. Form: All forms
 TWA: 100 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. Use respiratory mask with charcoal and dust filter when spraying this product (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter (A2).

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: polyvinyl alcohol or nitrile.

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

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

Eyes

: Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

Physical state	: Liquid.
Odour	: Characteristic.
Colour	: Various colours.
Flash point	: Closed cup: 24°C (75.2°F).
Density	: 2.4 g/cm ³
Lower explosion limit	: The greatest known range is Lower: 1.5% Upper: 13.7% (1-methoxy-2-propanol)
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, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

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

Ingredient name

Species

Period

Result

Date of issue

: 31.10.2005.

Page: 3/5

Muki Z 3000 - Comp. B

zinc stabilized	Daphnia magna (EC50)	48 hour/hours	2.8 mg/l
	Pimephales promelas (LC50)	96 hour/hours	0.238 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	0.24 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	0.41 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	0.56 mg/l
Xylene	Daphnia magna (LC50)	96 hour/hours	0.57 mg/l
	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
butan-1-ol	Lepomis macrochirus (LC50)	96 hour/hours	13.3 mg/l
	Pimephales promelas (LC50)	96 hour/hours	13.4 mg/l
	Daphnia magna (EC50)	48 hour/hours	1983 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	100 mg/l
	Pimephales promelas (LC50)	96 hour/hours	1730 mg/l
zinc oxide	Pimephales promelas (LC50)	96 hour/hours	1910 mg/l
	Pimephales promelas (LC50)	96 hour/hours	1940 mg/l
	Daphnia magna (EC50)	48 hour/hours	>1000 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	1.1 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	>320 mg/l
ethylbenzene	Pimephales promelas (LC50)	96 hour/hours	2248 mg/l
	Daphnia magna (EC50)	48 hour/hours	2.93 mg/l
	Daphnia magna (EC50)	48 hour/hours	2.97 mg/l
	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	9.8 mg/l

13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue : 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances (EWC)

14. Transport informationInternational transport regulations

Proper shipping name : Paint.
 U/N Number : 1283
 Class : 3
 Sub-risk : -
 Packing group : III
 Label :

Additional information

ADR / RID : Hazard identification number: 30
 Special provisions: 640E
 IMDG : Emergency schedules (EmS): F-E, S-E
 Marine pollutant: No.

IATA : -

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

These zinc types have been tested according to the criteria for classes 4.1, 4.2 and 4.3. The test results shows that these types do not meet the criteria for classifying in class 4.1, 4.2, 4.3 : BAM, 2005 Report II,2-616/D4.

15. Regulatory information

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1989/45/EC as follows:

Muki Z 3000 - Comp. B

Hazard symbol/symbols :



Harmful



Dangerous for the environment

Risk phrases :

R10- Flammable.
R20/21- Harmful by inhalation and in contact with skin.
R36- Irritating to eyes.
R50/53- Very toxic 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.
S51- Use only in well-ventilated areas.

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.
R37/38- Irritating to respiratory system and skin.
R38- Irritating to skin.
R41- Risk of serious damage to eyes.
R67- Vapours may cause drowsiness and dizziness.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Notice to readerHistory

Date of printing :

31.10.2005.

Date of issue :

31.10.2005.

Date of previous issue :

11.08.2004.

Version :

4

Prepared by :

Jotun Group Product Safety Department

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.

☒ Indicates information that has changed from previously issued version.

Version

4

Page: 5/5