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SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : **MD-22 Part A**

Use : Binder for coating materials

Company: SIA «WMT Baltic»
166b A. Deglava str., Riga, LV-1021
VAT Reg. Nr. LV40003400148
Tel.: 67 800 830, 67 800 833
Fax: 67 800 831, 67 800 832
Bank: AS «SWEDBANK»
Nor. konts: LV15 HABA 0551 0073 03071
S.W.I.F.T: HABALV22
e-mail: office@wmt.lv
http://www.wmt.lv

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (1272/2008/CE)
Eye irritation, Category 2(H319)

Classification (2006/121/EC,1999/45/EC)
No classifikation according to EC Directives 2006/121/EC or 1999/45/EC.

Labelling(1272/2008/CE)

Warning

Hazard statements
H319 Causes serious eye irritation.

Precautionary statements:
P280 Wear protecve gloves/ eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Labelling(2006/121/EC,1999/45/EC):
No labbeling is required for this material by the Chemicals (Hazard Information and Pacrfging for Supply) Regulations 2009 (CHIP 4), in accordance with EC Directives

3. COMPOSITION/INFORMATION ON INGREDIENTS

Type of products: Mixture

polyester polyol

Hazardous components
2,2,4-Trimethylpentane-1,3-diol
Concentration [wt.-%]: ca. 18
CAS-No.: 144-19-4
Classification (1272/2008/CE): Eye Irrit. 2 H319
Classification (67/548/EEC): Xi R36

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2-Butyl-2-ethyl-propanediol
Concentration [wt.-%]: ca. 16
EC-No.: 204-111-7
CAS-No.: 115-84-4
Classification (1272/2008/CE): Eye Irrit. 2 H319
No classification according to EC Directives 2006/121/EC or 1999/45/EC.

4. FIRST AID MEASURES

Description of first aid measures
General advice: Take off all contaminated clothing immediately.
If inhaled: Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.
In case of skin contact: In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.
In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.
If swallowed: DO NOT induce the patient to vomit, medical advice is required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.
Unsuitable extinguishing media: High volume water jet
Special hazards arising from the substance or mixture: Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.
Advice for fire-fighters: Firemen must wear self-contained breathing apparatus. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Put on protective equipment (see section 8). Keep away from sources of ignition. Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.
Environment related measures: Do not allow to escape into waterways, wastewater or soil.
Methods and material for containment and cleaning up: Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.
Reference to other sections: For further disposal measures see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:
Provide sufficient air exchange and/or exhaust in work rooms.
Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in section 8 should not be exceeded.
Explosion protection required.
The personal protective measures described in Chapter 8 must be observed. The precautions required in the handling of solvents must be taken. Avoid contact with skin and eyes and the inhalation of vapor.
Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.
Conditions for safe storage, including any incompatibilities:
Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.
Storage class (TRGS 510): 10: Combustible liquids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

UK Workplace Exposure Limits (WEL), per EH40 document (Health & Safety Executive). If no UK value exists, EU exposure limits given where available.

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Control parameters
No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

Exposure controls
Respiratory protection:
Respiratory protection required in insufficiently ventilated working areas and during spraying.
Hand protection:
Protective gloves are recommended.
Conditionally suitable materials for protective gloves; EN 374:
Nitrile rubber - NBR (>= 0.35 mm)
Breakthrough time not tested; dispose of immediately after contamination.
Eye protection:
Wear eye/face protection.
Skin and body protection:
Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid	
Colour:	nearly colourless	
Odour:	almost odourless	
Odour Threshold:	not established	
pH:	not applicable	
Pour point:	ca. -16 °C	ISO 3016
Boiling point/boiling range:	ca. 242 °C at 1,013 hPa	
Flash point:	ca. 131 °C	DIN EN 22719
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Vapour pressure:	< 110 kPa at 50 °C	
Vapour density:	not established	
Density:	ca. 1.05 g/cmÑ at 20 °C	DIN EN ISO 2811
Miscibility with water:	immiscible at 15 °C	
Surface tension:	not established	
Partition coefficient (n−octanol/water):	not established	
Auto-ignition temperature:	not applicable	
Ignition temperature:	ca. 345 °C	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	ca. 1,900 mPa.s at 23 °C	DIN EN ISO 3219/A.3
Explosive properties:	not established	
Dust explosion class:	not applicable	
Oxidising properties:	not established	
Other information:	The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.	

10. STABILITY AND REACTIVITY

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Please find below the toxicological data available to us for the components.
Information on toxicological effects
Acute toxicity, oral:
Polyester polyol
LD50 rat: > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.
Studies of a comparable product.

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2,2,4-Trimethylpentane-1,3-diol
LD50 rat: 3,730 mg/kg

2-Butyl-2-ethyl-propanediol
LD50 rat: 2,900 mg/kg

Acute toxicity, dermal:
2,2,4-Trimethylpentane-1,3-diol
LD50 rabbit: > 5,000 mg/kg

2-Butyl-2-ethyl-propanediol
LD50 rabbit: 3,810 mg/kg

Acute toxicity, inhalation:
2,2,4-Trimethylpentane-1,3-diol
LC50 rat: > 3.3 mg/l, 6 h

Assessment: The substance or mixture has no acute inhalation toxicity

Primary skin irritation:
Polyester polyol
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Studies of a comparable product.

2,2,4-Trimethylpentane-1,3-diol
Species: rabbit
Result: slight irritant
Classification: No skin irritation

2-Butyl-2-ethyl-propanediol
Species: rabbit
Result: non-irritant
Classification: No skin irritation

Primary mucosae irritation:
Polyester polyol
Species: rabbit
Result: slight irritant
Classification: No eye irritation
Studies of a comparable product.

2,2,4-Trimethylpentane-1,3-diol
Species: rabbit
Result: irritating
Classification: Causes serious eye irritation.

2-Butyl-2-ethyl-propanediol
Species: rabbit
Result: slight irritant (Classification 67/548/EEC) / irritating (Classification 1272/2008/CE)
Method: Directive 67/548/EEC, Annex V, B.5.
Evaluation according to CLP-Regulation (EG) 1272/2008.

Sensitisation:
Polyester polyol
Skin sensitization (local lymph node assay (LLNA)):
Species: mouse

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Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 429
Studies of a comparable product.

2,2,4-Trimethylpentane-1,3-diol
Skin sensitisation:
Species: guinea pig
Result: negative
Classification: Does not cause skin sensitization.

2-Butyl-2-ethyl-propanediol
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Species: guinea pig
Result: negative
Classification: Does not cause skin sensitization.

Genotoxicity in vitro:
Polyester polyol
Test type: Salmonella/microsome test (Ames test)
Result: No indication of mutagenic effects.
Method: OECD Test Guideline 471
Studies of a comparable product.

CMR Assessment:
2-Butyl-2-ethyl-propanediol
Mutagenicity: Not mutagenic in Ames Test.

12. ECOLOGICAL INFORMATION
Please find below the ecotoxicological data available to us for the components.

Toxicity
Acute Fish toxicity:
Polyester polyol
LC50 > 100 mg/l
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Studies of a comparable product.

2,2,4-Trimethylpentane-1,3-diol
LC50 837 mg/l
Species: illy fish (Oryzias latipes)
Exposure duration: 48 h

2-Butyl-2-ethyl-propanediol
LC50 > 100 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h

Acute toxicity for daphnia:
Polyester polyol
EC50 > 100 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Studies of a comparable product.

2,2,4-Trimethylpentane-1,3-diol

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EC50 > 109 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h

2-Butyl-2-ethyl-propanediol
EC50 > 95 mg/l
Species: Daphnia
Exposure duration: 48 h

Acute toxicity for algae:
2,2,4-Trimethylpentane-1,3-diol
ErC50 > 110 mg/l
Species: Pseudokirchneriella subcapitata (green algae)
Exposure duration: 72 h

2-Butyl-2-ethyl-propanediol
ErC50 > 95 mg/l
Species: Scenedesmus capricornutum (fresh water algae)
Exposure duration: 72 h
Method: OECD Test Guideline 201

Acute bacterial toxicity:
Polyester polyol
EC50 > 1,000 mg/l
Species: activated sludge
Method: OECD Test Guideline 209
Studies of a comparable product.

Persistence and degradability
Biodegradability:
Polyester polyol
Biodegradation: < 60 %, 28 d, i.e. not readily degradable
Method: OECD Test Guideline 301 F
Studies of a comparable product.

2-Butyl-2-ethyl-propanediol
Biodegradation: 7 %, 28 d, i.e. not readily degradable
Method: OECD Test Guideline 301 A

Bioaccumulative potential
Theoretical oxygen demand (ThOD):
2,2,4-Trimethylpentane-1,3-diol
ThBOD value: 2,520 mg/g

Partition coefficient (n−octanol/water):
2,2,4-Trimethylpentane-1,3-diol

log Pow: 1.24
2-Butyl-2-ethyl-propanediol

log Pow: 2.2 at: 25 °C

13. DISPOSAL CONSIDERATIONS
Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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Waste treatment methods
After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

14. TRANSPORT INFORMATION

ADR/RID Not dangerous goods
ADN Not dangerous goods
This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.
IATA Not dangerous goods
IMDG Not dangerous goods
Special precautions for user : Not dangerous cargo.
Keep dry.
Keep separated from foodstuffs.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Water contaminating class (Germany): 1 slightly water endangering
(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)
Any national regulations for the handling of solvents and hazardous substances must be observed.

16. OTHER INFORMATION

Full text of hazardous (H) warnings referred to under sections 2 and 3 of the CLP classification (1272/2008/CE).
H319 Causes serious eye irritation.

Full text of R-phrases referred to under sections 2 and 3 of the EU classification (67/548/EEC,1999/45/EC).
R36 Irritating to eyes.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.