mungo

Safety data sheet

according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

¹1.1 Product identifier

· Trade name: MUNGO MPU-M50

- [•] 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Onecomponent polyurethane foam (B3)

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Mungo Befestigungstechnik AG Bornfeldstrasse 2 CH-4603 Olten
- Further information obtainable from: Phone +41 62 206 75 75 Fax +41 62 206 75 85 mungo@mungo.swiss

* 1.4 Emergency telephone number: In case of emergency, consult physician

SECTION 2: Hazards identification

²2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

	•	S
Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
Lact.	H362	May cause harm to breast-fed children.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.

[•] 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.
· Precaution	onary statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P284	In case of inadequate ventilation wear respiratory protection (a protective mask
	with an appropriate gas filter - i.e. type A1 according to standard EN 14387).
P302+P3	
P304+P3	
P305+P3	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P308+P3	
P410+P4	
P501	Dispose of container to in accordance with local/regional/national/
	international regulation.
 Addition 	al information:

a information

Contains isocyanates. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

[•] 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

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CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; () Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-30%
CAS: 85535-85-9 EINECS: 287-477-0	alkanes, C14-17, chloro Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	1-5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane Flam. Gas 1, H220; Press. Gas C, H280	10-15%
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether	1-10%
CAS: 74-98-6	propane	1-10%

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SECTION 4: First aid measures

[•] 4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- [•] 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents: Foam
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO)

Hydrogen cyanide (HCN)

- [•] 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.
- Additional information

Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

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SECTION 7: Handling and storage
 7.1 Precautions for safe handling Ensure that suitable extractors are available on processing machines Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
[•] 7.2 Conditions for safe storage, including any incompatibilities
 Storage: Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Observe official regulations on storing packagings with pressurised containers. Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions: Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from humidity and water. Keep container tightly sealed. 7.3 Specific end use(s) No further relevant information available.
SECTION 8: Exposure controls/personal protection
· Additional information about design of technical facilities: No further data; see item 7.
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 · 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace:
115-10-6 dimethyl ether
WEL Long-term value: 1920 mg/m ³ , 1000 ppm
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
• Additional information: The lists valid during the making were used as basis.
 8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Protection of hands:
Protective gloves Protective gloves according to EN 374

Protective gloves according to EN 374 Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Wear airtight protective goggles EN 166

· Body protection: Protective work clothing EN 13688

SECTION 9: Physical and chemical properties

[•] 9.1 Information on basic physical and chemical properties

Form: Colour: · Odour: · Odour threshold:	Aerosol According to product specification Characteristic Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. : Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
 Flammability (solid, gas): 	Not applicable.
· Ignition temperature:	199 ℃
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined.
[·] Explosion limits: Lower: Upper:	3.0 Vol % 18.6 Vol %
· Vapour pressure:	Not determined.
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined. Not applicable.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
 Viscosity: Dynamic: 	Not determined.
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Kinemati	C:

 Solvent content: VOC (EC)

24.9 %

Not determined.

[•] 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- ¹10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- . 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:

Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

- ¹11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if inhaled.
- · Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer.
- **Reproductive toxicity** May cause harm to breast-fed children.
- STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- [·] 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- * 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- * **12.4 Mobility in soil** No further relevant information available.

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- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

[•] 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
16 05 04*	gases in pressure containers (including halons) containing dangerous substances	
	waste isocyanates	
15 01 10*	packaging containing residues of or contaminated by dangerous substances	

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport inform	ation	
[·] 14.1 UN-Number · ADR, IMDG, IATA	UN1950	
 14.2 UN proper shipping name ADR IMDG IATA 	9 1950 AEROSOLS AEROSOLS AEROSOLS, flammable	
[·] 14.3 Transport hazard class(es	s)	
· ADR · Class · Label	2 5F Gases. Flammable liquids. 2.1	
· IMDG, IATA · Class · Label	2.1 2.1	
[·] 14.4 Packing group · ADR, IMDG, IATA	Void	
 14.5 Environmental hazards: Marine pollutant: 	No	
[•] 14.6 Special precautions for us • EMS Number:	ser Warning: Gases. F-D,S-U	
· Transport/Additional information:		
 ADR Limited quantities (LQ) 	11	
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· UN "Model Regulation":

UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

¹15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

Flam. Gas 1: Flammable gases - Category 1 Aerosol 1: Aerosols - Category 1 Press. Gas C: Gases under pressure - Compressed gas Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity – Category 2 Lact .: Reproductive toxicity - effects on or via lactation STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

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