



HUBER | MARTINSWERK

SAFETY DATA SHEET

Pergopak® M; Pergopak® M2; Pergopak® M3; Pergopak® M4; Pergopak® M5; Pergopak® M6

MoEL's Public Notice No. 2016-19 Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name Pergopak® M; Pergopak® M2; Pergopak® M3; Pergopak® M4; Pergopak® M5; Pergopak® M6

Chemical Name Polymethyl urea resin with ~15% water content.

Pure substance/mixture Mixture

Urea, polymer with formaldehyde

CAS Number 9011-05-6

Weight-% ~85

Water

CAS Number 7732-18-5

Weight-% 15

B. Recommended use and Limitations on use

Recommended Use Carrier Pigment, matting agent, additives for papers, paints, varnishes, etc.

Uses advised against None known

C. Supplier information

Company Name MARTINSWERK GmbH
Kölner Strasse 110
50127 Bergheim
Germany
Tel. : +49-2271-90.22.78
Fax. : +49-2271-90.27.17

E-mail hubermaterials@huber.com

Internet www.hubermaterials.com

Contact person CHEMTREC
Emergency phone number +1 800 424 9300 International +1 703 527 3887

Section 2: HAZARDS IDENTIFICATION

A. Hazard category/Classification

Physical Hazards Not classified

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Health Hazards Not classified

Environmental Hazards Not classified

B. Warning label items including precautionary statement**Label Elements**

Symbols/Pictograms None

Signal Words None

Hazard Statements None

Precautionary statement**Prevention**

Do not handle until all safety precautions have been read and understood
Avoid release to the environment
Observe good industrial hygiene practice
Avoid breathing dust.
Use mechanical ventilation (dilution and local exhaust) to control exposure

Response

IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Storage

Keep in a dry place
Store away from incompatible materials

Disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	Weight-%
Urea, polymer with formaldehyde	9011-05-6	KE-35175	Not classified	~85
Water	7732-18-5	KE-35400	Not classified	15

Section 4: FIRST AID MEASURES**A. In case of eye contact**

Rinse with water. Get medical attention if irritation develops and persists.

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- B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.
- C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.
- D. In case of swallowing** Rinse mouth. Get medical attention if symptoms occur.
- E. Note to physician** Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media** None known

B. Specific hazards arising from the chemical (example: hazardous combustion products)

- Explosion hazard:** None known

C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

B. Environmental precautions Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

A. Precautions for safe handling

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limit values, biological limit values, etc

Urea, polymer with formaldehyde

ACGIH	Not established
OSHA	Not established

B. Engineering Controls

Engineering Measures

Do not handle until all safety precautions have been read and understood
 Ensure adequate ventilation, especially in confined areas
 Provide a good standard of controlled ventilation (10 to 15 air changes per hour)
 Use exhaust ventilation to keep airborne concentrations below exposure limits
 In case of insufficient ventilation, wear suitable respiratory equipment

C. Personal protective equipment

- **Eye protection** If contact is likely, safety glasses with side shields are recommended.
- **Hand protection** For prolonged or repeated skin contact use suitable protective gloves.
- **Body protection** Wear suitable protective clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Color	White
Odor	Odorless
Odor Threshold	None
pH:	8.0 < / = 0.3% Water
Melting Point / Melting Range	Not applicable
Melting point / Freezing point	Not applicable
Flash Point	> 200 °C
Evaporation Rate	No data available
Flammability (solid, gas)	Non-combustible
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	ca 1.47 (20°C)
Water Solubility	practically insoluble
Solubility in other solvents	No information available Not applicable
Autoignition Temperature	No information available
Decomposition Temperature	> 200 °C
Kinematic viscosity	Not applicable.

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Dynamic viscosity
Explosive PropertiesNot applicable.
Maximum Pressure - 156.5 psig 10.8 bar
Maximum Pressure Rise - 452 bar/s
Deflagration Index 123 Kst bar m/s
Limiting Oxygen Concentration: 18.5%**9.2. Other information**

None known

Section 10: STABILITY AND REACTIVITY**A. Stability and hazardous reaction potential****Stability** Stable under normal conditions**Hazardous reaction potential** None known**B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc)** Avoid creating dust. Incompatible materials.**C. Incompatible materials** Strong oxidizing agents**D. Hazardous decomposition products** No hazardous decomposition products are known.**Section 11: TOXICOLOGICAL INFORMATION****A. Information on likely routes of exposure**

- **Mouth** Not an expected route of exposure
- **Eyes** Avoid contact with eyes
- **Skin** Avoid prolonged or repeated contact with skin

B. Information on health hazards**Urea, polymer with formaldehyde**

Oral LD50 8394 mg/kg Rat
Dermal LD50 > 2100 mg/kg Rabbit
Inhalation LC50 > 167 mg/m³ 4- hour Rat

Skin Corrosion/Irritation Based on available data, the classification criteria are not met Non-irritant**Skin Sensitization** Based on available data, the classification criteria are not met Not a skin sensitizer**Mutagenicity** No information available

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Reproductive Effects	No information available.
Carcinogenicity	No known carcinogens are present at greater than 0.1%.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	No information available.

Section 12: ECOLOGICAL INFORMATION

A. Ecotoxicity

Hazardous to the aquatic environment, acute hazard	Not classified Avoid runoff to waterways and sewers
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Hazardous to the aquatic environment, long-term hazard	Not classified Avoid runoff to waterways and sewers
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Urea, polymer with formaldehyde

96-Hour LC50	> 1000 mg/l. Fish.
48-Hour EC50	> 1000 mg/L. Daphnia Magna (Water Flea).

B. Persistence/degradability No data available

C. Bioaccumulative potential No data available

D. Mobility in soil No data available

E. Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 14: TRANSPORT INFORMATION

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Mode of Transportation (Road, Water, Air, Rail)

ADR	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable**A. Method of disposal**

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B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Section 15: REGULATORY INFORMATION**National Regulations****Urea, polymer with formaldehyde**

CAS Number	9011-05-6
Weight-%	~85
Korean GHS Classification	Not classified

Water

CAS Number	7732-18-5
Weight-%	15
Korean GHS Classification	Not classified

Other domestic and foreign regulations

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Global Inventories

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Urea, polymer with formaldehyde	9011-05-6	-	Exempt	Y	Y	Y	(7)-576 (ENCS) (9)-1835 (ISHL)	KE-35175	N	Y	Y	Y	A
Water	7732-18-5	231-791-2	Exempt	Y	Y	Y	ENCS	KE-35400	Y	Y	Y	Y	A

Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

Section 16: OTHER INFORMATION

A. Source of Information

Abbreviations and acronyms

IARC (International Agency for Research on Cancer)
 IATA (International Air Transport Association)
 IMDG (International Maritime Dangerous Goods)
 IUCLID (International Uniform Chemical Information Database)
 WHMIS (Workplace Hazardous Materials Information System)
 DOT (Department of Transportation)
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 TWA (Time-Weighted Average)
 CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))
 PPE (Personal Protection Equipment)
 NIOSH (National Institute for Occupational Safety and Health)
 TDG (Transport of Dangerous Goods) Canada
 CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
 RQ (Reportable Quantity) (RQ/% in mixture)
 STEL (Short Term Exposure Limit)
 TLV® (Threshold Limit Value)
 DNEL (Derived No Effect Level)
 SVHC (Substances of Very High Concern)
 BOD (Biochemical oxygen demand)
 COD (Chemical oxygen demand)
 ICAO (International Civil Aviation Organization)
 IMDG (International Maritime Dangerous Goods)
 ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
 SCBA (Self-Contained Breathing Apparatus) Positive Pressure
 PNEC (Predicted No Effect Concentration)
 TSCA (Toxic Substances Control Act)
 GHS (Globally Harmonized System)

B. Issue Date 15/Dec/2022

Print Date 15/Dec/2022

 C. Number of revisions and Date 1.5.3
 of most recent revision

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D. Other

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End of Safety Data Sheet