

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

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013
GHS (Globally Harmonized System)

Issue Date 15/Dec/2022
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Revision Number 1.5.3
Page 1 of 9

Section 1: PRODUCT AND COMPANY IDENTIFICATION

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
Recommended Use	Carrier Pigment, matting agent, additives for papers, paints, varnishes, etc.
Uses advised against	None known
Emergency Telephone	CHEMTREC China: 4001-204937 (Mandarin) Local call: +86 532 5879 2008
E-mail	hubermaterials@huber.com
Internet	www.hubermaterials.com

Section 2: HAZARDS IDENTIFICATION

GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None

Precautionary Statements

Prevention	Avoid release to the environment Observe good industrial hygiene practices. 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
Spills and Leaks	Collect spillage
Storage	Store in a dry place Store away from incompatible materials.
Disposal	Dispose in accordance with local, state and national regulations

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Urea, polymer with formaldehyde	9011-05-6	Y	Not classified	A	Exempt	~85
Water	7732-18-5	Y		A	Exempt	15

Additional Information:

The concentration of free formaldehyde is less than 0.1%.

Section 4: FIRST AID MEASURES

General Advice	In case of doubt or when symptoms persist, seek medical attention.
Eye Contact	Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
Notes to Physician	Treat symptomatically
Personal Protective Equipment	Wear suitable protective clothing

Issue Date 15/Dec/2022

Print Date 15/Dec/2022

Revision Number 1.5.3

Page 3 of 9

For First Aid Responders IF exposed or concerned: Get medical advice/attention

Expected acute symptoms and delayed symptoms None known

Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None known

Specific Hazards Arising from the Chemical None known

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.

Environmental Precautions Prevent from entering into soil, ditches, sewers and waterways.

Methods for cleaning up Sweep or vacuum spilled material Dispose of according to local and regional authority requirements

Other Information: None known

Section 7: HANDLING AND STORAGE

Handling In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation. Handle in accordance with good industrial hygiene and safety practice.

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaust at critical locations

Urea, polymer with formaldehyde

ACGIH

NIOSH

OSHA

Not established

Not established

Not established

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
Personal Protective Equipment	
Eye/Face Protection	Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear suitable protective clothing
Hand Protection	Protective gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash hands and face before breaks and immediately after handling the product.
Environmental Exposure Controls	Dispose of in accordance with local regulations

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

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
Boiling Point / Boiling Range	Not applicable
Flash Point	> 200 °C.
Evaporation Rate	No data available
Flammability (solid, gas)	Non-combustible
Upper flammability limit:	
Lower flammability limit:	
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
Partition coefficient	Not applicable
Autoignition Temperature	No information available
Decomposition Temperature	> 200 °C
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable

Issue Date 15/Dec/2022

Print Date 15/Dec/2022

Revision Number 1.5.3

Page 5 of 9

Explosive Properties 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

Stability Stable under normal conditions

Conditions to avoid: Heat, flames and sparks. Dust formation.

Incompatible materials None known

Hazardous decomposition products None known
Avoid temperatures above > 200°C

Hazardous Reactions None under normal processing

Hazardous polymerization: None under normal processing

Section 11: TOXICOLOGICAL INFORMATION

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Product Information**Information on Likely Routes of Exposure**

Eyes Avoid contact with eyes

Skin Avoid prolonged or repeated contact with skin

Inhalation Based on available data, the classification criteria are not met
Dust contact with the eyes can lead to mechanical irritation

Ingestion Ingestion is not a likely route of exposure

11.1. Information on toxicological effects**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.
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

Ecotoxicity

Urea, polymer with formaldehyde

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

Persistence/Degradability: No information available.

Bioaccumulative Potential No information available.

Partition coefficient Not available
Bioconcentration factor No data available.

(BCF)
Mobility in soil No information available.

Results of PBT and vPvB assessment No information available.

Other Adverse Effects No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products Dispose of in accordance with local regulations

Contaminated Packaging: Dispose of contents/container to an approved waste disposal plant

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Safety Data Sheet

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Issue Date 15/Dec/2022

Print Date 15/Dec/2022

Revision Number 1.5.3

Page 7 of 9

Section 14: TRANSPORT INFORMATION

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

DOT	Not regulated
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

Section 15: REGULATORY INFORMATION

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

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

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
Reason for Revision	GB/T 16483-2008 GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013
GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None
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) SCBA (Self-Contained Breathing Apparatus) Positive Pressure GHS (Globally Harmonized System) ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail) SARA (Superfund Amendments and Reauthorization Act of 1986) TSCA (Toxic Substances Control Act)

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Safety Data Sheet

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Issue Date 15/Dec/2022

Print Date 15/Dec/2022

Revision Number 1.5.3

Page 9 of 9

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End of Safety Data Sheet