



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)

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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
<u>Urea, polymer with formaldehyde</u>	
CAS Number	9011-05-6
Weight-%	~85
<u>Water</u>	
CAS Number	7732-18-5
Weight-%	15
<u>Formaldehyde</u>	
CAS Number	50-00-0
Weight-%	< 0.1
Recommended Use	Carrier Pigment, matting agent, additives for papers, paints, varnishes, etc.
Uses advised against	None known
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Emergency Telephone	CHEMTREC China: 4001-204937 (Mandarin) Local call: +86 532 5879 2008
E-mail	www.huberadvancedmaterials.com/contact
Internet	www.huberadvancedmaterials.com

Section 2: HAZARDS IDENTIFICATION

GHS Classification	Not classified.
Physical Hazard	Not classified.
Health Hazard	Not classified.

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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	Not classified.	A	Exempt	15
Formaldehyde	50-00-0	Y	<0.1% Not classified.	A	01-2119488953-20 -xxxx	< 0.1

Additional Information: The concentration of free formaldehyde is less than 0.1%.

Section 4: FIRST AID MEASURES

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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 For First Aid Responders	Wear suitable protective clothing 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

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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 Not established

NIOSH Not established

OSHA Not established

Formaldehyde

ACGIH TLV (TWA): 5ppm

NIOSH Ceiling: 0.3 ppm

IDLH: 20 ppm

Ceiling: 0.1 ppm 15 min

OSHA TWA: 0.016 ppm

TWA: 0.75 ppm

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:

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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
Explosive Properties	Not applicable

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

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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/m ³ 4- hour Rat

Formaldehyde

ACGIH	Group 2A - Probably Carcinogenic to Humans
IARC	Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)	Known - Known Carcinogen
OSHA	Potential cancer hazard

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

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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

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

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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 (AIIIC)	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
Formaldehyde	50-00-0	200-001-8	01-211948895 3-20-xxxx	Y	Y	Y	(2)-482 (ENCS) 2-(8)-379 (ISHL)	KE-17074	Y	Y	Y	Y	A

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

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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)

HUBER

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SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

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End of Safety Data Sheet