



Safety Data Sheet

ADVANCED MATERIALS

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 2020/878

Issue Date 10/Aug/2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

1.2. Relevant identified uses of the substance or mixture and uses advised against

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

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone number National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

Hazards identification

Physical Hazard Not classified

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

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Symbols/Pictograms	None
Signal Word	None
Hazard Statements	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

Precautionary Statements

Prevention	Employ good industrial hygiene practice Wash hands thoroughly after handling
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water
Storage	Keep in a dry place
Disposal	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Supplemental Information	EUH208 - Contains (Formaldehyde). May produce an allergic reaction.

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substance Not applicable

3.2. Mixture Mixture

Chemical Name	CAS Number	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%
Urea, polymer with formaldehyde	9011-05-6	-	Not classified.	~85
Water	7732-18-5	231-791-2	Not classified.	15
Formaldehyde	50-00-0	200-001-8	This product is not classified as dangerous. [Acute Tox. 3 (H301); Acute Tox. 3 (H311); Acute Tox. 3 (H331); Skin Corr. 1B (H314); Skin Sens. 1 (H317); Muta. 2 (H341); Carc. 1B (H350)].	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

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General Advice	When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
Skin Contact	Wash with plenty of soap and water.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water.
Aspiration hazard	Based on available data, the classification criteria are not met.
Notes to Physician	Treat symptomatically.
4.2. Most important symptoms and effects, both acute and delayed	Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases. Do not breathe dust/fume/gas/mist/vapors/spray.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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Fire-fighting measures

Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation
Ensure adequate ventilation
Handle in accordance with good industrial hygiene and safety practice
Use personal protective equipment as required

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Urea, polymer with formaldehyde

EU TWA

ACGIH

OSHA

Not established

Not established

Not established

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NIOSH	Not established
Formaldehyde	
ACGIH	TLV (TWA): 5ppm Ceiling: 0.3 ppm
OSHA	TWA: 0.75 ppm
NIOSH	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min
Austria	TWA: 0.016 ppm Skin: 0.6 mg/m ³ STEL: 0.5 ppm
Bulgaria	Ceiling: 0.5 ppm
Bulgaria	1.0 mg/m ³ TWA
Croatia	2.0 mg/m ³ STEL
Croatia	2.5 mg/m ³ TWA
Czech Republic	2.5 mg/m ³ STEL
Czech Republic	0.5 mg/m ³ TWA
Estonia	1 mg/m ³ CEIL
Finland	TWA: 0.6 mg/m ³
Finland	TWA: 0.37 mg/m ³
Germany	STEL: 1.2 mg/m ³ TWA: 0.37 mg/m ³ 0.3 ppm exposure factor 2 0.37 mg/m ³ exposure factor 2
Greece	2.5 mg/m ³ TWA
Greece	2.5 mg/m ³ STEL
Hungary	0.6 mg/m ³ TWA
Hungary	0.6 mg/m ³ STEL
Ireland	2.5 mg/m ³ TWA
Ireland	2.5 mg/m ³ STEL
Latvia	TWA: 0.5 mg/m ³
Lithuania	TWA: 0.6 mg/m ³
Netherlands	1.5MGM3; 1PPM TWA
Netherlands	3MGM3; 2PPM TWA
Norway	TWA: 0.6 mg/m ³
Norway	STEL: 0.6 mg/m ³
Poland	0.5 mg/m ³ TWA
Poland	1 mg/m ³ STEL
Romania	TWA: 1.20 mg/m ³
Romania	STEL: 3 mg/m ³
Slovakia	TWA: 0.37 mg/m ³
Slovenia	TWA: 0.62 mg/m ³
Spain	STEL: 0.37 mg/m ³
Sweden	TWA: 0.37 mg/m ³
Switzerland	TWA: 0.37 mg/kg
Switzerland	STEL: 0.74 mg/m ³
United Kingdom	TWA: 2.5 mg/m ³
United Kingdom	STEL: 2.5 mg/m ³

Recommended monitoring procedures

Refer also to national guidance documents for information on currently recommended monitoring procedures

Biological Limit Values

None

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8.2. Exposure 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

Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear suitable protective clothing.

Thermal hazards

None known.

Hygiene Measures

Follow general hygiene considerations recognized as common good workplace practices

Environmental Exposure Controls

Dispose of in accordance with local regulations

SECTION 9: Physical and chemical properties

9.1. 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
Freezing Point	Not applicable
Flash Point	> 200 °C
Evaporation Rate	No data available.
Flammability (solid, gas)	Not applicable
Flammability (solid, gas)	Non-combustible
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	No data available

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Relative Density	ca 1.47 (20°C)
Water Solubility	practically insoluble
Solubility in other solvents	No information available
Partition coefficient	No information available Not applicable
Autoignition Temperature	No information available
Decomposition Temperature	> 200 °C
Viscosity	No information available.
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Explosive Properties	Not applicable
Oxidizing Properties	Not applicable
Particle Size	No information available
VOC Content (%)	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

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%

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Dust formation Heat, flames and sparks
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known Avoid temperatures above 200°C

SECTION 11: Toxicological information

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

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11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Urea, polymer with formaldehyde

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

Formaldehyde

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

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.

Information on Likely Routes of Exposure

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

Skin Avoid prolonged or repeated contact with skin

Eyes Avoid contact with eyes

Aspiration hazard Not an expected route of exposure.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information Not applicable

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SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Urea, polymer with formaldehyde

96-Hour LC50 > 1000 mg/l Fish

48-Hour EC50 > 1000 mg/L Daphnia Magna (Water Flea)

WGK Classification (AwSV) 3777 WGK: 1

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

Bioconcentration factor (BCF) No data available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which the product was used

Urea, polymer with formaldehyde

WGK Classification (AwSV) 3777 WGK: 1

SECTION 14: Transport information

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

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

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

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Urea, polymer with formaldehyde	9011-05-6	-	Y	Y	Y	(7)-576 (ENCS) (9)-1835 (ISHL)	KE-35175	N	N	Y	Y	Y	A
Water	7732-18-5	231-791-2	Y	Y	Y	ENCS	KE-35400	Y	55-1-06023	Y	Y	Y	A
Formaldehyde	50-00-0	200-001-8	Y	Y	Y	(2)-482 (ENCS) 2-(8)-379 (ISHL)	KE-17074	Y	55-1-03933	Y	Y	Y	A

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

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REACH No.

Urea, polymer with formaldehyde

EU REACH registration number Exempt

Water

EU REACH registration number Exempt

Formaldehyde

EU REACH registration number 01-2119488953-20-xxxx

Germany

Urea, polymer with formaldehyde

WGK Classification (AwSV) 3777 WGK: 1

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

Reason for Revision This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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(CLP) Regulation (EC 1272/2008) Not classified

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements This product is not classified as hazardous according to the UN GHS guideline and labeling is not required.

Training Advice Do not handle until all safety precautions have been read and understood.

Abbreviations and acronyms IARC (International Agency for Research on Cancer)
IUCLID (International Uniform Chemical Information Database)
WHMIS (Workplace Hazardous Materials Information System)
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)

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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)
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
PNEC (Predicted No Effect Concentration)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
TSCA (Toxic Substances Control Act)

Disclaimer

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.

End of Safety Data Sheet