

SAFETY DATA SHEET (SDS)



Jacquard Products
Manufactured by Rupert, Gibbon & Spider, Inc.
P.O. Box 425 | Healdsburg, CA 95448
800.442.0455 | Fax: 707.433.4906
www.jacquardproducts.com

Methocel - Pg 1

Revision Date: 05/15/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	METHOCEL	
Product Number/Code:	CHM1004 / 2004 / 3004	
Recommended Use:	Thickener; binder; film former; processing aid.	
Restrictions on use:	None known	
Manufacturer:	Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Ave. Healdsburg, CA 95448 1-800-442-0455 / 707-433-9577	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344	
	North America: 1-800-255-3924	International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

Toxicological Data on Ingredients:		
Hazard Classification	This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	
Physical Hazards:	Skin Sensitization	Category I
Health Hazards:	Not classified	
Environmental Hazards:	Combustible Dust	
Label Elements		
Pictogram:		
Signal Words:	WARNING	
Hazard Statements-EU:	H317 May cause an allergic skin reaction. May form combustible dust concentrations in air.	

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Precautionary Statements-EU:	
Prevention:	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P243 Take precautionary measures against static discharge.</p> <hr/> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.</p>
Response:	<p>P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: get medical advice/attention. P321 Specific treatment: (see ... on this label). P363 Wash contaminated clothing before reuse.</p>
Storage:	See section 7
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.
Hazard(s) not otherwise classified:	Slipping hazard. May form explosive dust-air mixture.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Component	Concentration	CAS #
Hydroxypropyl methyl cellulose	>= 85.0 - <= 95.0	9004-65-3
Water	>= 1.0 - <= 10.0	7732-18-5
Sodium chloride	>= 0.5 - <= 5.0 %	7647-14-5
Ethanedial	< 1.0	107-22-2
Polyglycol and carboxylic acid	<= 4.0	Trade secret
<i>This product is a mixture.</i>		

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SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
General advice:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
In the event of skin contact:	Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
In the event of eye contact:	Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.
In the event of swallowing:	No emergency medical treatment necessary.
In the event of exposure by inhalation:	Move person to fresh air; if effects occur, consult a physician.
Most important symptoms and effects, acute and delayed:	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in section 11.
Indication of any immediate medical attention and special treatment needed:	Notes to physician: no specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media:	Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.
Unsuitable extinguishing media:	No data available
Special hazards arising from the substance or mixture:	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Unusual fire and explosion hazards:	Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.
Advice for fire fighters:	Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.
Special protective equipment for firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to section 8.
Methods and material for containment and clean up:	Contain spilled material if possible. Sweep up. Use care to minimize generation of airborne dust. Do not use water for cleanup. Collect in suitable and properly labeled containers. See section 13 for additional information.
Environmental procedures:	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See section 12.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Good housekeeping and controlling of dusts are necessary for safe handling of product. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge. See section 8.
Conditions for safe storage including any incompatibilities:	Store in a dry place. See Section 10 for more specific information. Storage stability temperature: 5-35°C/41-95°F.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:			
Exposure limits: (listed below, if they exist)			
Component	Regulation	Type of Listing	Value/Notation
Hydroxypropyl methyl cellulose	Dow IHG	TWA Total dust	10 mg/m3
Ethanediol	ACGIH	TWA Inhalable fraction and vapor	0.1 mg/m3
	USWEEL	TWA aerosol	0.1 mg/m3
	ACGIH	TWA	Skin Sensitizer
Carboxylic acid	USWEEL	TWA	Skin Sensitizer
	DOW IHG	C	3 ppm
	ACGIH	TWA	5 ppm
	ACGIH	STEL	10 ppm
	OSHA Z-1	TWA	9 mg/m3 - 5 ppm
	OSHA P0	TWA	9 mg/m3 - 5 ppm
Appropriate engineering controls:		Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.	
Individual protection measures, such as personal protective equipment:			
Eye/face protection:		Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.	
Skin protection:		Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.	
Hand protection:		Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.	
Respiratory protection:		Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.	

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
<i>NOTE: The physical data presented below are typical values and should not be construed as a specification.</i>	
Appearance and physical state:	Powder
Color:	White to off-white
Type of Odor:	Mild
Odor threshold:	No test data available
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	Not applicable
Melting Point/Freezing Point:	Not applicable
Flammability Classification:	May form combustible dust concentrations in air
Flash Point:	
Auto-ignition Temperature:	No test data available
Decomposition Temperature:	No test data available
Flammability Limits (lower/upper):	No test data available
Evaporation rate:	
Vapor Pressure:	Not applicable
Vapor Density (Air=1):	Not applicable
Octanol/Water Partition Coefficient (log Pow):	
Specific Gravity:	
Bulk Density:	
Water Solubility:	Completely soluble in water
pH:	Not applicable
Viscosity:	No test data available
Explosive Properties:	No data available
Oxidizing Properties:	No data available
Molecular Formula:	
Molecular Weight:	No test data available
Relative Density:	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable under recommended storage conditions. See section 7.
Possibility of hazardous reactions:	Polymerization will not occur.
Conditions to avoid:	Avoid temperatures above 130°C. Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.
Incompatible materials:	Avoid contact with oxidizing materials. Avoid contact with strong acids and strong bases.
Hazardous decomposition products:	Decomposition products depend upon temperature, air supply and the presence of other materials.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity (list all possible routes of exposure)	
Acute Oral Toxicity:	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Single dose oral LD50 has not been determined. For the major component(s): LD50, Rat, > 5,000 mg/kg
Acute Dermal Toxicity:	Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD50 has not been determined. For the major component(s): LD50, Rabbit, > 5,000 mg/kg
Acute Inhalation Toxicity:	No adverse effects are anticipated from single exposure to dust. For respiratory irritation and narcotic effects: No relevant data found. The LC50 has not been determined.
Skin Corrosion/Irritation:	Essentially non-irritating to skin.
Serious Eye Damage / Eye Irritation:	Solid or dust may cause irritation or corneal injury due to mechanical action.
Respiratory or Skin Sensitization:	For the minor component(s): Skin contact may cause an allergic skin reaction. For respiratory sensitization: No relevant data found.
Germ Cell Mutagenicity:	Similar celluloseics were negative in both in vitro and animal genetic toxicity studies.
Carcinogenicity:	Similar celluloseics did not cause cancer in long-term animal studies.
Reproductive Toxicity:	Similar celluloseics did not cause birth defects or other toxic effects to the fetus in laboratory animal studies.
Specific Target Organ Toxicity - single exposure (STOT-se):	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific Target Organ Toxicity - repeated exposure (STOT-re):	Repeated ingestion of similar celluloseics by humans has not resulted in known significant adverse effects.
Aspiration Hazard:	Based on physical properties, not likely to be an aspiration hazard.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:		
Acute/prolonged toxicity to fish:	Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).	
Persistence and degradability:	Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.	
	Incubation Time	BOD
	5 d	0%
	10 d	0%
	20 d	0%
Bioaccumulation:	No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).	
Mobility in soil:	No data available	

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SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
Container Disposal:	The preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device. Landfill.

SECTION 14 - TRANSPORT INFORMATION

General Information:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN number:	Not relevant
UN proper shipping name:	Not relevant
Transport hazard class:	Not relevant
Packing group:	Not relevant
Environmental Hazards:	
Environmentally hazardous substance:	No
Special precautions for user:	Not relevant

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:			
Hazard categories			
OSHA Hazard Communication Standard:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:	Acute Health Hazard		
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103:	Calculated RQ exceeds reasonably attainable upper limit.		
	Components:	CAS #:	RQ:
	Ormic acid	64-18-6	5,000 lbs RQ
Pennsylvania Worker and Community Right-To-Know Act:	To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.		
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):	This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.		
United States TSCA Inventory (TSCA):	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.		

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SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	No information available
Flammability:	No information available
Reactivity:	No information available
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

Disclaimer:

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

Revision Date: 05/15/2018

National Chemical Inventories:	
All components of this product are listed on the following chemical substance inventories: TSCA (USA)	
DSL	(Canada)
EINECS	(Europe)
ENCS	(Japan) ECL
	(Korea)
AICS	(Australia) NZIoC
	(New Zealand)
PICCS	(Philippines)
IECSC	(China)

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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System