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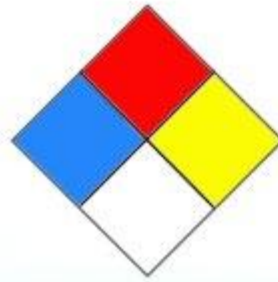
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# Material Safety Data Sheet (MSDS)

## **I. PRODUCT INFORMATION FOR GELYCEL ®, Sodium Carboxymethylcellulose (CMC ) and Polyanionic Cellulose (PAC)**

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## **II. COMPOSITION / COMPONENTS INFORMATION**

Product Name: Gelycel®, Sodium Carboxymethylcellulose (CMC) and Polyanionic Cellulose (PAC)

Chemical denomination: Sodium Carboxymethylcellulose (CMC), cellulose,carboxymethyl ether, sodium salt, cellulose gum.

CAS Number: 9004-32-4

## **III. HAZARD IDENTIFICATION**

This product is considered hazardous according to the OSHA Hazard Communication Standard 29CFR1910.1200 due to flammable dust potential.

- Flammable dust when finely divided and suspended in air.
- Dust causes mild eye irritation.
- It may cause respiratory irritation if inhaled.
- Surfaces subject to spills or dusting can become slippery when wet.

CAS Number: (9004-32-4)	<b>HMIS</b>	<b>Rating</b>
	Health hazard:	1 Slight
	Flammability hazard:	1 Slight
	Reactivity hazard:	0 Minimal
	Personal protection equipment	E

Grade of sodium carboxymethylcellulose; grade of sodium CMC; Cellulose, carboxymethyl ether, polyanionic cellulose, sodium salt.

#### **IV. EMERGENCY AND FIRST AID PROCEDURES**

**EYES:** In case of contact, immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to assure thorough flushing. Call a physician.

Remove to fresh air. Treat any irritation symptomatically. Call a physician.

#### **V. FLAMMABILITY INFORMATION**

Caution: Flammable dust when finely divided and suspended in air. Surfaces subject to spills or dusting can become slippery when wet.

Browning temperature: 227 C (440 F)

Flammable limits: N/A

Autoignition temperature: >370 C (698 F) as dust.

Extinguishing media: Water spray, dry chemical, foam or carbon dioxide.

Special fire-fighting procedures: None.

Unusual fire and/or explosion hazards: Flammable dust when finely divided and suspended in air.

Combustion products include: Carbon monoxide, carbon dioxide and smoke.

#### **VI. SPILL & LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Sweep up spilled material for use or disposal. Surfaces subject to spills or dusting with this product can become slippery when wet.

Waster Disposal Method: Incineration of waste material in a permitted facility in accordance to local, state, and federal regulations is the recommended disposal method. Landfilling in a licensed facility equipped with leachate collection is a suitable alternative.

This product is biodegradable. Wastewater containing this product can be considered for treatment in an acclimated biological treatment system of adequate capacity.

This product is not listed in federal hazardous waste regulations 40CFR261.33 paragraphs (e) or (f), i.e. chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40CFR261

Subpart C. State or local hazardous waste regulations may apply if different from the federal.

## **VII. HANDLING AND STORAGE PROCEDURES**

Keep away from heat, sparks and open flame. To protect product quality, store in sealed containers in a dry and well ventilated area, away from heat and sunlight.

## **VIII. EXPOSURE LIMITS / INDIVIDUAL PROTECTION**

Not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by the ACGIH (American Conference of Governmental Industrial Hygienists), or an OSHA (Occupational Safety & Health Administration) standard is issued, Quimica Amtex S.A. suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

## **IX. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS**

Physical State: Granular powder.  
Color: White to light tan powder.  
Odor: Odorless  
Moisture contents (% by weight): 10% maximum (as packed)  
Solubility in water: Complete  
Specific density: 0.6-0.9  
pH: 6 to 12  
Boiling point: N/A  
Vapor pressure 20 C: N/A  
Vapor density N/A  
Evaporation rate: N/A  
Freezing point: N/A

\*\* N/A: not applicable

## **X. STABILITY AND REACTIVITY.**

Stability considerations: Stable.  
Incompatibility with: None.  
Hazardous decomposition products: None.  
Hazardous products of combustion: Carbon monoxide, carbon dioxide, smoke.  
Hazardous polymerization: Will not occur.

## **XI. TOXICOLOGIC INFORMATION**

Medical conditions generally recognized as being aggravated by exposure: None known.

Primary route of entry: Following standard industrial hygiene and recommended procedures, entry of the compound into the body is not expected. Not listed as a carcinogen by NTP (National Toxicology Program); not regulated as a carcinogen by OSHA (Occupational Safety & Health Administration); not evaluated by IARC (International Agency for Research on Cancer).

Reported Human Effects: A single case of allergic contact dermatitis reported after repeated long-term (8 years) skin contact with purified sodium CMC.

Reported Animal Effects: Eye irritation after exposure to dust of purified sodium CMC. Laboratory studies indicate that SODIUM CARBOXYMETHYLCELLULOSE is not a mutagen, not a teratogen, not a carcinogen and does not cause effects on reproduction.

## **XII. ECOLOGICAL INFORMATION.**

Eco-toxicological analysis performed with identical chemicals had the following results:

Acute toxicity for fish: Clo > 2000 mg / l

Species: Brachynadio rerio

Acute toxicity for fish: CL100: > 4000 mg / l

Species: Brachynadio rerio

(OCDE guidelines for chemical tests, N° 203)

Acute toxicity for bacteria: CE50: 10,000 mg / l

(OCDE guidelines for chemical tests, N° 209)

Bio-accumulation: log POW < 0 - not lipophil, with no bio-accumulation potential.

Degradability:

Biological degradation: < 5% after 28 days.

(OCDE guidelines for chemicals tests, N° 301 E)

DQO Value: aprox. 900 mg/g, DIN 38409 - part 41

DBO5: 0 mg O2 / l , DIN 38409 - H 51

The same as with cellulose, under appropriate conditions, CMC and PAC is biodegradable and causes no disturbances to wastewater depurators.

## **XIII. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with all Federal, State and Local regulations.

It can be disposed into an appropriate dumping place.

#### **XIV. TRANSPORTATION INFORMATION**

It is not a hazardous transportation product.  
This product is not subject to DOT regulations.

#### **XV. INFORMATION REQUIRED**

No special label is required.  
TLV value (fine powder): 6 mg / m<sup>3</sup>  
CTR value: Not applicable.

#### **XVI. OTHER INFORMATION.**

##### REGULATORY INFORMATION

##### **CHEMICAL INVENTORIES:**

U.S. TSCA: The components of this product are included on the TSCA Inventory.

Canadian CEPA: Included on DSL Inventory.

##### **SARA TITLE III - SECTIONS 302 / 304.**

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

##### **SARA TITLE III - SECTIONS 311 AND 312.**

NHH :Not a health hazard.

HC-3: Fire Hazard.

##### **SARA TITLE III - SECTIONS 313.**

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.


#### **APPLICABLE CONTROL MEASURES**

Appropriate hygiene practices: Do not allow eye contact, Avoid breathing dust.

Personal Protective equipment: Safety glasses. The use of dust mask is optional unless the TLV is exceeded.

Work practices: Eyewash fountains and safety showers should be easily accessible, Keep floors clean and dry.

Handling and storage precautions: Keep away from heat, sparks and open flame. To protect product quality, store in sealed containers in a dry place away from heat and sunlight.



Engineering controls: Adequate ventilation should be provided to keep dust concentration below acceptable exposure limits.

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We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. Users are advised to make their own test to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

