

# Material Safety Data Sheet

Revision Date: 10.12.2021

## CARBOXYMETHYL CELLULOSE HV

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name** : Sodium carboxymethyl cellulose  
**Chemical Formula** : C<sub>8</sub>H<sub>15</sub>NaO<sub>8</sub>  
**CAS #** : 9004-32-4

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

**Recommended Use** : Oilfield, Textile, Paint, Adhesives

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** : Novichem Co.  
30 Magnolia Str, Qaem Maqam Farahani Ave.  
Tehran15886/13941 IRAN

#### 1.4. Emergency and contact telephone numbers

Contact telephone number : +98-21-88329799 (Product information)

### 2. HAZARDS IDENTIFICATION

HAZARDOUS COMPONENTS	CAS Registry No.	CONCENTRATION (% wt/wt)
Carboxymethylcellulose	9004-32-4	85%

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**EMERGENCY OVERVIEW:** Mechanical hazard. Dust may cause mechanical irritation to skin, eyes and respiratory tract. Low hazard for usual industrial or commercial handling. See "Other Health Effects" Section. Powdered material may form explosive dust-air mixtures. Can decompose at high temperatures forming toxic gases.

#### POTENTIAL HEALTH

##### EFFECTS Inhalation:

Product may be mildly irritating to the nose, throat and respiratory tract and may cause coughing and sneezing. Excessive contact with powder may cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. See "Other Health Effects" Section.

##### Skin Contact:

This product may cause irritation due to abrasive action. Excessive contact with powder may cause drying of the skin due to absorption of moisture and oils. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis.

##### Skin Absorption:

Not likely to be absorbed through the skin.

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### 4. FIRST AID MEASURES

Inhalation:	If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice IMMEDIATELY.
Skin Contact:	Start flushing while removing contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.
Eye Contact:	Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.
Ingestion:	Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY.
Note to Physicians:	Treat symptomatically. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.

### 5. FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Product is not considered a fire or explosion hazard. However, it has been reported to enhance the explosive properties of ammonium nitrate when they are mixed together in the right proportions.

**Extinguishing Media:** Use any means of extinction appropriate for surrounding fire conditions such as water spray, carbon dioxide, dry chemical or foam. Cool any containers that are exposed to heat or flames by the application of water streams until well after the fire has been extinguished.

**Fire Fighting:** This material will not burn. However, it may undergo thermal decomposition at temperatures above approximately 250°C to release toxic and combustible gases such as ammonia, nitrogen oxides and sulphur oxides. Firefighters must wear full protective clothing and an approved, self-contained breathing apparatus which supplies a positive air pressure within a full face-piece mask. Do not allow water run-off to enter sewers or watercourses.

### 6. ACCIDENTAL RELEASE MEASURES

Information in this section is for responding to spills, leaks or releases in order to prevent or minimize the adverse effects on persons, property and the environment. There may be specific reporting requirements associated with spills, leaks or releases, which change from region to region.

**Containment and Clean-Up Procedures:** In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS. Eliminate all sources of ignition. Do not flush with water as aqueous solutions or powders that become wet render surfaces extremely slippery. Wear respirator, protective clothing and gloves. Avoid dry sweeping. Do not use compressed air to clean surfaces. Vacuuming is preferred. Return all material possible to container for proper disposal. Minimize air borne spreading of dust. Avoid accumulation and dispersion of dust to reduce explosion potential. Collect product for recovery or disposal. Ventilate enclosed spaces. Notify applicable government authority if release is reportable or could adversely affect the environment.

Where a package (drum or bag) is damaged and / or leaking, repair it, or place it into an over-pack drum immediately so as to avoid or minimize material loss and contamination of surrounding environment. Any recovered product can be used for the usual purpose, depending on the extent and kind of contamination. Notify applicable government authority if release is reportable or could adversely affect the environment.

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## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid unnecessary contact with skin and eyes. Avoid generating dust and the release of dust into the workplace. Good housekeeping is important to prevent accumulations of dust.

**Conditions for Safe Storage:** Store in a dry, cool, well-ventilated area. Keep away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

No control parameters known.

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical resistant nitrile rubber gloves

#### Eye protection

Splash goggles  
Face-shield

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.  
Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential.

#### General protective measures

Eye wash facility and safety shower should be available.  
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	: Solid.
Appearance:	: White to off-white powder or crystals.
Odour:	: Odourless.
Relative Density (g/cc):	: 1.5 - 1.6.
Bulk Density:	: 500 - 1000 kg/m <sup>3</sup> . (3)
Viscosity:	: 5000 - 7000 cps.
Evaporation Rate (Butyl Acetate = 1.0):	: Not applicable.
Solubility:	: Soluble in water.
% Volatile by Volume:	: Not available.
pH:	: 6.5 - 7.5 (aqueous solution)
Coefficient of Water/Oil Distribution:	: Not available.
Volatile Organic Compounds (VOC):	: Not applicable.
Flashpoint (°C):	: Not available.

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### 10. STABILITY AND REACTIVITY

#### CHEMICAL STABILITY

Under Normal Conditions:	Stable.
Under Fire Conditions:	Not readily flammable, but will support combustion. Avoid accumulation and dispersion of dust to reduce explosion potential.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	High temperatures, sparks, open flames and all other sources of ignition. Minimize air borne spreading of dust. Clean up immediately to eliminate slipping hazard. Keep tightly closed to protect quality. Avoid moisture contamination.
Materials to Avoid:	Strong oxidizers. Strong acids. Strong bases. Reducing agents. Avoid moisture contamination.
Decomposition or Combustion Products:	Thermal decomposition products are toxic and may include oxides of carbon, sodium and irritating gases.

### 11. TOXICOLOGICAL INFORMATION

Carcinogenicity Data:	The ingredient(s) of this product is (are) not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.
Reproductive Data:	No adverse reproductive effects are anticipated.
Mutagenicity Data:	No adverse mutagenic effects are anticipated.
Teratogenicity Data:	No adverse teratogenic effects are anticipated.
Respiratory / Skin Sensitization Data:	May cause skin sensitization or other allergic responses. Repeated ingestion may cause an allergic reaction in susceptible individuals. (3) Sensitization is the process whereby a biological change occurs in the individual because of previous exposure to a substance and, as a result, the individual reacts more strongly when subsequently exposed to the substance. In an industrial setting, the common routes of sensitization, inhalation and skin contact, are addressed by WHMIS. However, sensitization by ingestion is not specifically considered by WHMIS.
Synergistic Materials:	
Other Studies Relevant to Material:	None known.  Sodium Carboxymethyl Cellulose produced a laxative effect after repeated oral ingestion of large amounts (10 grams). (3) A single case of allergic contact dermatitis has been reported after repeated long-term (8 years) skin contact. (3)

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### 12. ECOLOGICAL INFORMATION

While this product is highly soluble in water, it has limited direct toxicity to most organisms living in aquatic and terrestrial environments. Its constituents are not bioaccumulative. However, when dissolved in water, the product can release free ammonia, which, at elevated concentrations, can be toxic to fish and other aquatic organisms. Toxic thresholds are dependent on pH. In addition, when present in slow-moving watercourses, the product can promote algal growth, which may, in turn, degrade water quality. The product can also, if ingested, be harmful to livestock and wildlife.

### 13. DISPOSAL CONSIDERATIONS

Do not wash down drain. Recover and place material in a suitable container for intended use or disposal. Ensure disposal complies with government requirements and local regulations.

### 14. TRANSPORT INFORMATION

**CANADIAN TDG ACT SHIPPING DESCRIPTION:**

This product is not regulated by TDG.

Label(s): Not applicable. Placard: Not applicable.

ERAP Index: ----- Exemptions: None known.

**US DOT CLASSIFICATION (49CFR 172.101, 172.102):**

This product is not regulated by DOT.

Label(s): Not applicable. Placard: Not applicable.

CERCLA-RQ: Not available. Exemptions: None known.

### 15. REGULATORY INFORMATION

CEPA - NSNR: This material is included on the DSL under the

CEPA - NPRI: CEPA. Not included.

Controlled Products Regulations Classification (WHMIS):

Not regulated.

**USA**

Environmental Protection Act: This material is included on the TSCA Inventory.

OSHA HCS (29CFR 1910.1200): Not regulated.

NFPA: 0 Health, 1 Fire, 0 Reactivity (3)

HMIS: 0 Health, 1 Fire, 0 Reactivity (3)

**INTERNATION**

AL Not

available.

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### 16. OTHER INFORMATION

Information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.