



# Safety Data Sheet

Dow Chemical Company Ltd  
Safety Data Sheet according to Reg. (EC) N. 453/2010

**Product Name:** WALOCEL\* CRT 50000 PA 07 Sodium  
Carboxymethylcellulose

**Revision Date:** 2012/12/05

**Print Date:** 17 Feb 2014

Dow Chemical Company Ltd encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## Section 1. Identification of the substance/preparation and of the company/undertaking

### 1.1 Product identifiers

**Product Name**

WALOCEL\* CRT 50000 PA 07 Sodium Carboxymethylcellulose

**Chemical Name:** Modified cellulose

**CAS-No.** 9004-32-4

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

**Identified uses**

Thickener. Binder. Film former. Processing aid.

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

**COMPANY IDENTIFICATION**

Dow Chemical Company Ltd  
Diamond House, Lotus Park  
Kingsbury Crescent  
TW18 3AG Staines, Middlesex  
United Kingdom

Customer Information Number:

0203 139 4000

[SDSQuestion@dow.com](mailto:SDSQuestion@dow.com)

### 1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:**

0031 115 694 982

**Local Emergency Contact:**

00 31 115 69 4982

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification - REGULATION (EC) No 1272/2008**

This product is not classified as dangerous according to EC criteria.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

This product is not classified as dangerous according to EC criteria.

## 2.2 Label elements

### Labelling - REGULATION (EC) No 1272/2008

This product is not classified as dangerous according to EC criteria.

## 2.3 Other Hazards

No information available.

## Section 3. Composition/information on ingredients

### 3.1 Substance

This product is a substance.

CAS-No. / EC-No. / Index	REACH No.	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS-No. 9004-32-4 EC-No. Polymer	—	100.0 %	Modified cellulose##	Not classified

CAS-No. / EC-No. / Index	Amount	Component	Classification: 67/548/EEC
CAS-No. 9004-32-4 EC-No. Polymer	100.0 %	Modified cellulose##	Not classified.

## Voluntarily disclosed component(s).

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4. First-aid measures

### 4.1 Description of first aid measures

**General advice:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin Contact:** Wash skin with plenty of water.

**Eye Contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

### 4.2 Most important symptoms and effects, both 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), no additional symptoms and effects are anticipated.

### 4.3 Indication of immediate medical attention and special treatment needed

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## Section 5. Fire Fighting Measures

### 5.1 Extinguishing Media

Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** 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.

### 5.3 Advice for firefighters

**Fire Fighting Procedures:** 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.

## Section 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Isolate area.

Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**6.3 Methods and materials for containment and cleaning 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, Disposal Considerations, for additional information.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

**General Handling:** Avoid contact with eyes. Wash thoroughly after 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, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Store in a dry place. See Section 10 for more specific information.

**Shelf life:** Use within 18 Months  
**Storage temperature:** 5 - 35 °C

### 7.3 Specific end uses

See the technical data sheet on this product for further information.

## Section 8. Exposure Controls / Personal Protection

### 8.1 Control parameters

#### Exposure Limits

None established

### 8.2 Exposure controls

#### Personal Protection

**Eye/Face Protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

**Skin Protection:** No precautions other than clean body-covering clothing should be needed.

**Hand protection:** Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

**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. In dusty or misty atmospheres, use an approved particulate respirator. Use the following CE approved air-purifying respirator: Particulate filter, type P2.

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

#### Engineering Controls

**Ventilation:** 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.

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical State</b>	Powder or granules
<b>Color</b>	White to off-white
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No test data available
<b>pH</b>	Not applicable
<b>Melting Point</b>	No test data available
<b>Freezing Point</b>	Not applicable
<b>Boiling Point (760 mmHg)</b>	Not applicable.
<b>Flash Point - Closed Cup</b>	No test data available
<b>Evaporation Rate (Butyl Acetate = 1)</b>	Not applicable to solids
<b>Flammability (solid, gas)</b>	No
<b>Flammable Limits In Air</b>	<b>Lower:</b> No test data available <b>Upper:</b> No test data available
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density (air = 1)</b>	Not applicable
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	No test data available
<b>Solubility in water (by weight)</b>	completely soluble in water

<b>Partition coefficient, n-octanol/water (log Pow)</b>	No data available for this product.
<b>Autoignition Temperature</b>	No test data available
<b>Decomposition Temperature</b>	No test data available
<b>Kinematic Viscosity</b>	Not applicable
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 9.2 Other information

<b>Molecular Weight</b>	No test data available
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## Section 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under recommended storage conditions. See Storage, Section 7.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

**10.4 Conditions to Avoid:** Avoid temperatures above 130 °C. Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

**10.5 Incompatible Materials:** Avoid contact with oxidizing materials. Avoid contact with: Strong acids. Strong bases.

### 10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### Ingestion

Very low toxicity if swallowed. Swallowing may result in gastrointestinal irritation. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

LD50, rat 15,000 - 27,000 mg/kg

##### Aspiration hazard

Based on physical properties, not likely to be an aspiration hazard.

##### Dermal

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, rabbit > 2,000 mg/kg

##### Inhalation

Dust may cause irritation to upper respiratory tract (nose and throat). For narcotic effects: No relevant data found.

LC50, 4 h, rat > 5.8 mg/l

##### Eye damage/eye irritation

May cause slight eye irritation.

##### Skin corrosion/irritation

Prolonged contact is essentially nonirritating to skin.

##### Sensitization

##### Skin

Did not cause allergic skin reactions when tested in guinea pigs.

##### Respiratory

No relevant data found.

### **Repeated Dose Toxicity**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

### **Chronic Toxicity and Carcinogenicity**

Contains component(s) which did not cause cancer in laboratory animals.

### **Developmental Toxicity**

Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

### **Reproductive Toxicity**

Contains component(s) which did not interfere with reproduction in animal studies.

### **Genetic Toxicology**

Contains a component(s) which were negative in in vitro genetic toxicity studies.

## **Section 12. Ecological Information**

### **12.1 Toxicity**

Data for Component: **Modified cellulose**

Material is not classified as dangerous to aquatic organisms.

#### **Fish Acute & Prolonged Toxicity**

LC50, Danio rerio (zebra fish), static test, 96 h: 1,414 mg/l

LC50, Lepomis macrochirus (Bluegill sunfish), 96 h: 100 - 1,000 mg/l

#### **Aquatic Invertebrate Acute Toxicity**

EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 1,414 mg/l

### **12.2 Persistence and Degradability**

Data for Component: **Modified cellulose**

Material is not readily biodegradable according to OECD/EEC guidelines.

#### **OECD Biodegradation Tests:**

<b>Biodegradation</b>	<b>Exposure Time</b>	<b>Method</b>	<b>10 Day Window</b>
0 %	28 d	OECD 301E Test	fail

### **12.3 Bioaccumulative potential**

Data for Component: **Modified cellulose**

**Bioaccumulation:** No relevant data found.

### **12.4 Mobility in soil**

Data for Component: **Modified cellulose**

**Mobility in soil:** No relevant data found.

### **12.5 Results of PBT and vPvB assessment**

Data for Component: **Modified cellulose**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

### **12.6 Other adverse effects**

Data for Component: **Modified cellulose**

No specific, relevant data available for assessment.

## **Section 13. Disposal Considerations**

### **13.1 Waste treatment methods**

Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

## **Section 14. Transport Information**

### **ADR/RID**

#### **14.1 UN number**

Not applicable

#### **14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

#### **14.3 Transport hazard class(es)**

Not applicable

#### **14.4 Packing Group**

Not applicable

#### **14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

#### **14.6 Special precautions for user**

Special Provisions: no data available

Hazard identification No: no data available

### **ADNR / ADN**

#### **14.1 UN number**

Not applicable

#### **14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

#### **14.3 Transport hazard class(es)**

Not applicable

#### **14.4 Packing Group**

Not applicable

#### **14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

#### **14.6 Special precautions for user**

no data available

### **IMDG**

#### **14.1 UN number**

Not applicable

#### **14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

#### **14.3 Transport hazard class(es)**

Not applicable

#### **14.4 Packing Group**

Not applicable

#### **14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

#### **14.6 Special precautions for user**

EMS Number: Not applicable

#### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

### **ICAO/IATA**

#### **14.1 UN number**

Not applicable

#### **14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

#### **14.3 Transport hazard class(es)**

Not applicable

#### **14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not applicable

**14.6 Special precautions for user**

no data available

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## **Section 15. Regulatory Information**

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

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

This product is a polymer according to the definition in Directive 92/32/EEC (7<sup>th</sup> Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements.

**15.2 Chemical Safety Assessment**

Not applicable.

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## **Section 16. Other Information**

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**Hazard statement in the composition section**

**Product Literature**

Additional information on this and other products we offer may be obtained by contacting us. Ask for a product information brochure or data on how to access our website.

**Revision**

Identification Number: 1015522 / 3005 / Issue Date 2012/12/05 / Version: 3.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

*Dow Chemical Company Ltd urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.*