

Safety Data Sheet Dow Wolff Cellulosics GmbH

Product Name: ANTISOL* FL 100 Polyanionic Cellulose Polymer

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Dow Wolff Cellulosics GmbH 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

ANTISOL* FL 100 Polyanionic Cellulose Polymer

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 Wolff Cellulosics GmbH August-Wolff-Strasse 13 29699 Bomlitz Germany

Customer Information Number:

49 5161 44 3901 SDSQuestion@dow.com

1.4 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: Local Emergency Contact: 0049 4146 91 2333 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.

®(TM)*Trademark

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 su CAS # / EC # / Index	bstance. REACH No.	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS # 9004-32-4 EC # Polymer	_	100.0 %	Modified cellulose##	Not classified
CAS # / EC # / Index	Amount	Component		Classification: 67/548/EEC
CAS # 9004-32-4 EC # Polymer	100.0 %	Μ	lodified 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. 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. 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: Wear clean, body-covering clothing.

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove is recommended to prevent contact with the solid material. 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. In dusty or misty atmospheres, use an approved particulate respirator. Use the following CE approved airpurifying 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

Physical State Color Odor

Powder or granules White to off-white Odorless

O den Thusshald	No toot data available
Odor Threshold	No test data available
pH Molting Point	Not applicable No test data available
Melting Point	
Freezing Point	Not applicable
Boiling Point (760 mmHg)	Not applicable.
Flash Point - Closed Cup	No test data available
Evaporation Rate (Butyl	Not applicable to solids
Acetate = 1)	N -
Flammability (solid, gas)	No
Flammable Limits In Air	Lower: No test data available
	Upper : No test data available
Vapor Pressure	Not applicable
Vapor Density (air = 1)	Not applicable
Specific Gravity (H2O = 1)	No test data available
Solubility in water (by	completely soluble in water
weight)	
Partition coefficient, n-	No data available for this product.
octanol/water (log Pow)	
Autoignition Temperature	No test data available
Decomposition	No test data available
Temperature	
Kinematic Viscosity	not applicable
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

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 > 5,800 mg/m3 Eye damage/eye irritation May cause slight eye irritation. Skin corrosion/irritation Prolonged contact is essentially nonirritating to skin. Repeated contact may cause slight skin irritation with local redness. 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, zebra fish (Brachydanio rerio), static, 96 h: 1,414 mg/l LC50, bluegill (Lepomis macrochirus), 96 h: 100 - 1,000 mg/l **Aquatic Invertebrate Acute Toxicity** EC50, water flea Daphnia magna, static, 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:**

Biodegradation	Exposure Time	Method	10 Day Window
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

<u>Data for Component:</u> **Modified cellulose** No specific, relevant data available for assessment.

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

ROAD & RAIL NOT REGULATED

OCEAN NOT REGULATED

AIR NOT REGULATED

INLAND WATERWAYS

NOT REGULATED

Section 15. Regulatory Information

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 (7th 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.

OSPAR. PLONOR List. Substances/preparations used and discharged offshore which are considered to pose little or no risk to the environment

Component	CAS #
Modified cellulose	9004-32-4

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

Section 16. Other Information

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

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