

# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of: COMMISSION REGULATION (EU) No. 830/2015 of 20 May 2015 Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 13-May-2022

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name ETHOCEL™ Standard 45 Ethylcellulose Industrial Grade

Product Code(s) 48272

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

Recommended use Thickening agent  
Binder  
Processing aid  
Coating  
Filler  
We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

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

#### Supplier

DDP Specialty Products Germany GmbH & Co. KG  
August-Wolff-Str. 13  
29699 Walsrode  
Germany

E-mail address sds.genencor@iff.com

### 1.4. Emergency telephone number

Emergency Telephone +49 5161 4882000

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Poison control centre phone number	112 (Europe)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008  
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.3. Other hazards

May form explosible dust-air mixture if dispersed.

### SECTION 3: Composition/information on ingredients

3.1 Substances Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ethylcellulose	-	9004-57-3	95 - 100	No information available	No data available

Full text of H- and EUH-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General advice</b>	When in doubt or if symptoms are observed, get medical advice.
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** Get medical attention if irritation or other symptoms occur.

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

**Note to doctors** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Foam. Dry powder. Water spray. Carbon dioxide (CO<sub>2</sub>).

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**Unsuitable extinguishing media** Keep product and empty container away from heat and sources of ignition. Do not use water jetstream.

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

**Specific hazards arising from the chemical** Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Hazardous combustion products** Smoke production.

### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use personal protection recommended in Section 8. Sweep up to prevent slipping hazard.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

### **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Dispose of in accordance with local regulations.

**Methods for cleaning up** Use industrial vacuum cleaners approved for combustible dust and area electrical classification.

### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Electrically bond and ground all containers and equipment before transfer or use of material. Keep away from heat, flames and sparks. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA- 654). See section 8 for more information.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s)**

**Specific use(s)** See section 1 for more information.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits** Based on data available for ingredients

**8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation. Avoid generation of dust and aerosols.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear protective gloves.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are likely to be exceeded or if irritation or other symptoms are experienced, NIOSH/MSHA or EN 136 approved respiratory protection should be worn.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance** Powder  
**Physical state** Solid  
**Colour** White to light yellow  
**Odour** Odourless  
**Odour threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	CC (closed cup)
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		Not applicable to Solids
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	None known
Relative vapour density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	Insoluble

<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	bioconcentration : None known
<b>Autoignition temperature</b>	No data available	Key literature references and sources for data Does not ignite before melting
<b>Decomposition temperature</b>		None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	Solid
<b>Explosive properties</b>	No data available.	
<b>Oxidising properties</b>	No information available	
<b>9.2. Other information</b>		
<b>Bulk density</b>	No information available	
<b>Molecular weight</b>	> 1000	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

### Explosion data

**Sensitivity to mechanical impact** No.  
**Sensitivity to static discharge** Yes.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** Store at temperatures not exceeding 320 °C/ 1602 °F. Exposure to elevated temperatures can cause product to decompose. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Protect from moisture.

### 10.5. Incompatible materials

**Incompatible materials** Incompatible with oxidising agents.

### 10.6. Hazardous decomposition products

**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

#### Product Information

#### Acute toxicity

**Inhalation** No information or data specific to the product on this toxicological (health) effect is available.

**Eye contact** No information or data specific to the product on this toxicological (health) effect is available.

**Skin contact** No information or data specific to the product on this toxicological (health) effect is available.

**Ingestion** No information or data specific to the product on this toxicological (health) effect is available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Get medical attention if irritation or other symptoms occur.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Respiratory or skin sensitisation** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity**

**Component Information** Classification based on data available for ingredients

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylcellulose	>5000mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-

*Ethylcellulose 9004-57-3*

**Eye irritation** Not expected  
**Skin irritation** Not expected  
**Respiratory irritation** Not expected  
**Sensitisation** Not expected.  
**Reproductive effects** Not expected  
**Mutagenic effects** Not expected  
**Systemic Toxicity** Not expected  
**Carcinogenicity** Not expected  
**Teratogenicity** Not expected

**The following values are calculated based on chapter 3.1 of the GHS document**  
 Based on data available for ingredients

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Based on data available for ingredients.

### 12.2. Persistence and degradability

**Persistence and degradability** Based on data available for ingredients.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Based on data available for ingredients

**Component Information** Based on data available for ingredients

### 12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** Based on data available for ingredients

### 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IMDG

14.1

14.2 **UN proper shipping name** Not regulated

14.3

14.4 **Packing group** Not regulated

14.5 **Marine pollutant** Not applicable

14.6 **Special Precautions for Users**

**Special Provisions**

None

14.7 **Transport in bulk according to** No information available

**Annex II of MARPOL and the IBC**

**Code**

### RID

14.1 **UN number** Not regulated

14.2 **UN proper shipping name** Not regulated

14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

**ADR**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

**IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

**SECTION 15: Regulatory information**

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

**Water hazard class (WGK)** Based on data available for ingredients

**Mixture** Based on data available for ingredients

Chemical name	CAS No	WGK Classification (AwSV)
Ethylcellulose	9004-57-3	Klasse (class) 1

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS
Ethylcellulose 9004-57-3	X	X	-	X	X	X	X

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information**

**Legend**



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**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Further information** ATEX Directive 1999/92/EC, Workplace Requirements for Explosive Atmospheres. ATEX Directive 94/9/EC, Equipment for use in Explosive Atmospheres.

**Revision date** 13-May-2022

**Reason for revision** \*\*\*Indicates updated section

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**