

## Offer Sheet

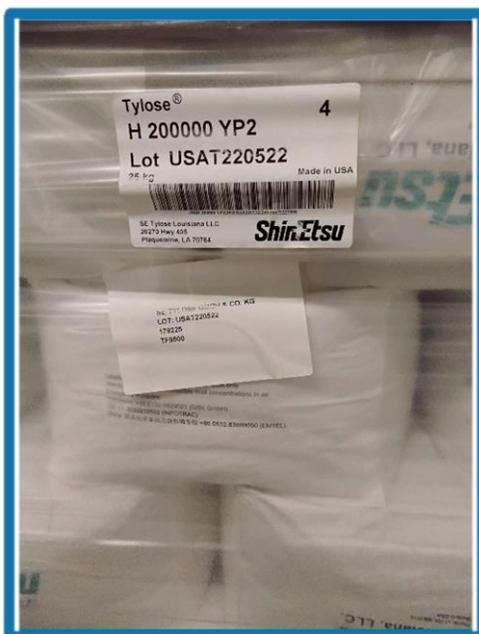
Product	Tylose (cellulose ethers)
Quantity	
Net weight	53,650 lbs.
Manufacture date	
Availability	One time
Location	Hartford, CN
Date	3/16/26
COA & SDS	Attached below

### 3 lots:

Tylose H 200000 YP2 – 440 lb. bags (24,250 lbs.)

Tylose MHS 150003 P4 – 55 lb. bags (12,400 lbs.)

Tylose MHF 10016 P4 – 55 lb. bags (17,000 lbs.)



**Brian Svrusis**  
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 Elk Grove Village, IL 60007  
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 Click here for: [Surplus Inventory](#)  
[Solvent-Systems.com](http://Solvent-Systems.com)

## Major Commercial Uses for Tylose (Cellulose Ethers)

### 1. Construction Materials (Largest Market)

The biggest commercial use is in **dry-mix construction products**.

Tylose improves:

- water retention
- workability
- adhesion
- sag resistance

Typical applications:

- **tile adhesives**
- **cement mortar**
- **stucco**
- **self-leveling compounds**
- **grouts**
- **EIFS coatings**

Typical dosage:

0.1–0.5% of formulation.

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### 2. Paints and Coatings

Tylose acts as a **rheology modifier and thickener**.

Benefits:

- improves viscosity
- stabilizes pigments
- improves brush/roller application
- prevents sagging

Used in:

- **water-based architectural paints**
  - **latex paints**
  - **industrial coatings**
- 

### 3. Pharmaceutical Tablets

Certain Tylose grades (pharma grade) are used as:

- **tablet binders**
  - **controlled-release polymers**
  - **film coatings**
- 

### 4. Food Industry (Limited Grades)

Food-grade methyl cellulose is used as a **stabilizer and thickener**.

Applications:

- sauces
- bakery fillings
- meat substitutes
- frozen foods

Interesting property:

Methyl cellulose **gels when heated**, unlike most hydrocolloids.

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### 5. Cosmetics and Personal Care

Tylose is used as a **thickener and stabilizer**.

Applications:

- lotions
- creams
- shampoos
- toothpaste

Benefits:

- stable viscosity
  - smooth texture
  - non-ionic compatibility
- 

### 6. Adhesives

Tylose acts as a **binder and viscosity modifier**.

Used in:

- wallpaper paste
  - paper adhesives
  - starch adhesives
  - woodworking adhesives
- 

### 7. Oil & Gas / Drilling Fluids

Certain cellulose ethers are used as:

- **fluid-loss control agents**
- **viscosifiers**

Applications:

- drilling mud
- well stimulation fluids



# Tylose H 200000 YP2

Hydroxyethylcellulose, with retarded swelling time

## Product Specification

<u>Item</u>	<u>Specification</u>	<u>Unit</u>	<u>Method</u>
Texture/Physical form	powder		
Solubility	soluble in water of any temperature		
Ionicity	nonionic		
Moisture, as packed	max. 5	%	1130
Ash content, as Na <sub>2</sub> SO <sub>4</sub>	max. 6	%	1140
pH-value, 1.0% solution	5.5 - 8.0	nd	1205
Particle size <0.180 mm (through 80 mesh)	min. 95	%	1010
Viscosity Brookfield LV, 30 rpm, sp. 4 1.0% dry basis, 25°C, deion. water	5000 - 6400	mPas	1300

### Remarks: PACKAGING AND STORAGE

This Tylose-type is supplied in multi-ply paper bags with polyethylene intermediate layer, shrink palletizing is available by ordering a minimum quantity of 1 pallet, and/or in big bags.

If stored in closed bags under dry conditions, Tylose has a long shelf life.

Product Code : 108917  
CAS No : 9004-62-0

Version : 3  
Date of Issue : 14.03.2014

This product specification would cease to be binding if the customer has not purchased the product during the preceding 12 months. This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial rights must be observed. It cannot be guaranteed that the products produced by the customer with cellulose ethers supplied by SE Tylose GmbH & Co. KG are free from intellectual property rights of third parties. This product specification is not signed. If you have any questions, please contact SE Tylose GmbH & Co. KG, Quality Assurance, D-65174 Wiesbaden, Germany. Email: [quality.assurance@setylose.com](mailto:quality.assurance@setylose.com)

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 12/22/2017 Revision date: 3/7/2025 Supersedes: 3/16/2021 Version: 7.1  
SDS No: 10896-0190



### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Tylose MHS 150003 P4  
Product code : MHEC\_M

#### 1.2. Other means of identification

Further information : UFI: Not classified = Not applicable

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Rheological Additive, Special applications, Binding agent  
Restrictions on use : There is no information available on applications that are not advised

#### 1.4. Supplier's details

##### Manufacturer

SE Tylose GmbH & Co. KG  
Kasteler Straße 45  
Wiesbaden, 65203  
Germany  
T + 49 611 962 6309

[product.safety@setylose.com](mailto:product.safety@setylose.com) - [www.setylose.com](http://www.setylose.com)

##### Informing department

Customer Service  
T +1 225-309-0110  
[product.safetyUSA@setyloseUSA.com](mailto:product.safetyUSA@setyloseUSA.com)

##### Importer

SE Tylose USA Inc.  
26270 Hwy 405  
Plaquemine, LA 70764  
USA

E-mail address of competent person responsible for the SDS: [sds@gbk-ingelheim.de](mailto:sds@gbk-ingelheim.de)

#### 1.5. Emergency phone number

Emergency number : Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 102867: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Combustible dust

May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.].

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Signal word (GHS US) : Warning  
Hazard statements (GHS US) : CODU - May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

### 2.4. Hazards not otherwise classified

Other hazards not contributing to the classification : Dust may form explosive mixture in air. Handle in accordance with good industrial hygiene and safety practice.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006.

Name	Product identifier	%	GHS US classification
Cellulose methyl ether, 2-hydroxyethyl ether, modified	CAS-No.: 9032-42-2	90 - 95	Not classified

Comments : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Consult an ophthalmologist if irritation persists.  
First-aid measures after ingestion : Rinse mouth. If symptoms persist, call a physician.

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

Symptoms/effects after skin contact : May cause sensitization of susceptible persons by skin contact.  
Symptoms/effects after eye contact : May cause eye irritation.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Sand. Alcohol resistant foam. Chemical powder. Carbon dioxide. Water spray.  
Unsuitable extinguishing media : No data available.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO<sub>2</sub>).

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Self-contained breathing apparatus.

## SECTION 6 Accidental release measures

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

General measures : Avoid dust formation. Do not breathe dust. Forms slippery surfaces with water.

#### For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Large amounts of the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal. Avoid dust formation.

Other information : Dispose of materials or solid residues at an authorized site.

Refer to protective measures listed in Sections 7 and 8, For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Dust may form explosive mixture in air. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Material is hygroscopic. Protect from atmospheric moisture and water.

Information on mixed storage : No special storage requirements.

Specific end uses : See Heading 1.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

Additional information : Obey TLV for common dust, if applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Avoid dust formation.

Environmental exposure controls : Avoid release to the environment.

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

### 8.3. Individual protection measures, such as personal protective equipment

#### Hand protection:

Not required for normal conditions of use. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

#### Eye protection:

Not required for normal conditions of use

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
breathing apparatus with filter	Type P1	Short term exposure

#### Other information:

Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product. Do not breathe dust.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: whitish
Odor	: odorless
Odor threshold	: No data available
pH	: 6 – 8
pH solution concentration	: 10 g/l
Melting point	: Not specifically applicable
Freezing point	: Not specifically applicable
Boiling point	: Not specifically applicable
Flash point	: Not specifically applicable
Relative evaporation rate (butyl acetate=1)	: Not specifically applicable
Flammability (solid, gas)	: No data available
Vapor pressure	: Not specifically applicable
Vapor pressure at 50°C	: Not specifically applicable
Relative vapor density at 20°C	: Not specifically applicable
Relative density	: Not specifically applicable
Density	: 1.1 – 1.5 g/cm <sup>3</sup> (20 °C)
Solubility	: Water: > 10 g/l (20 °C)
Log Pow	: < 0
Auto-ignition temperature	: > 170 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: Not specifically applicable
Viscosity, dynamic	: Not specifically applicable
Explosion limits	: Lower explosive limit (LEL): 30 g/m <sup>3</sup>
Explosive properties	: Product is not explosive. Dust may form explosive mixture in air.
Particle characteristics	: No data available

#### Cellulose methyl ether, 2-hydroxyethyl ether, modified

Particle characteristics	No data available
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# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Minimum ignition energy	: > 10 mJ
Bulk density	: 200 – 600 g/l
Combustion class	: 5
Smoldering temperature	: >450 °C
p <sub>max</sub>	: 10 bar
Dust explosion category	: ST1
KSt	: < 200 bar*m/s
Ignition temperature	: > 400 °C

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No decomposition if stored normally.

### 10.5. Incompatible materials

Strong oxidizing agent.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

#### Tylose MHS 150003 P4

LD50 oral rat	> 2000 mg/kg
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 6 – 8

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 6 – 8

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Symptoms/effects after skin contact	: May cause sensitization of susceptible persons by skin contact.
Symptoms/effects after eye contact	: May cause eye irritation.
Other information	: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

Tylose MHS 150003 P4	
LC50 fish 1	> 500 mg/l (OECD 203 method)
EC50 - Other aquatic organisms [1]	> 1000 mg/l (OECD 209 method)

### 12.2. Persistence and degradability

Tylose MHS 150003 P4	
Persistence and degradability	Product is biodegradable, Does not affect the functioning of waste-water treatment plants, In case of loss of large quantities, advice local authorities
Chemical oxygen demand (COD)	< 1500 mg/g

### 12.3. Bioaccumulative potential

Tylose MHS 150003 P4	
Log Pow	< 0
Bioaccumulative potential	Not potentially bioaccumulable.

### 12.4. Mobility in soil

Tylose MHS 150003 P4	
Mobility in soil	Not applicable

### 12.5. Other adverse effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Fluorinated greenhouse gases	: No
Other information	: Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

## SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

### SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not applicable	Not applicable	Not applicable
<b>14.2. Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Not applicable	Not applicable	Not applicable
No supplementary information available		

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

##### DOT

Not applicable

##### IMDG

Not applicable

##### IATA

Not applicable

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

No additional information available

#### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 3/7/2025

# Tylose MHS 150003 P4

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0190

Issue date : 12/22/2017  
Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG	Transport of Australian Dangerous Goods

Indication of changes:		
Section	Changed item	Comments
1	Address Information	Modified

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 12/22/2017 Revision date: 3/7/2025 Supersedes: 3/16/2021 Version: 7.1  
SDS No: 10896-0082



### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
Substance name : Tylose H 200000 YP2  
Product code : HEC\_R

#### 1.2. Other means of identification

Further information : UFI: Not classified = Not applicable

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Rheological Additive, Special applications, Binding agent  
Restrictions on use : There is no information available on applications that are not advised

#### 1.4. Supplier's details

##### Manufacturer

SE Tylose GmbH & Co. KG  
Kasteler Straße 45  
Wiesbaden, 65203  
Germany  
T + 49 611 962 6309

[product.safety@setylose.com](mailto:product.safety@setylose.com) - [www.setylose.com](http://www.setylose.com)

##### Informing department

Customer Service  
T +1 225-309-0110  
[product.safetyUSA@setyloseUSA.com](mailto:product.safetyUSA@setyloseUSA.com)

##### Importer

SE Tylose USA Inc.  
26270 Hwy 405  
Plaquemine, LA 70764  
USA

E-mail address of competent person responsible for the SDS: [sds@gbk-ingelheim.de](mailto:sds@gbk-ingelheim.de)

#### 1.5. Emergency phone number

Emergency number : Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 102867: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Combustible dust

May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.].

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Signal word (GHS US) : Warning  
Hazard statements (GHS US) : CODU - May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

### 2.4. Hazards not otherwise classified

Other hazards not contributing to the classification : Dust may form explosive mixture in air. Handle in accordance with good industrial hygiene and safety practice.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Comments : A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006.  
Name : Tylose H 200000 YP2

Name	Product identifier	%	GHS US classification
Cellulose, 2 - hydroxyethyl ether, retarded	CAS-No.: 9004-62-0	> 88	Not classified
glyoxal	CAS-No.: 107-22-2	< 0.01	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 STOT SE 3, H335

Comments : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Consult an ophthalmologist if irritation persists.  
First-aid measures after ingestion : Rinse mouth. If you feel unwell, seek medical advice.

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

Symptoms/effects after skin contact : May cause sensitization of susceptible persons by skin contact.  
Symptoms/effects after eye contact : May cause eye irritation.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Treat symptomatically.

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Sand. Alcohol resistant foam. Chemical powder. Carbon dioxide. Water spray.  
Unsuitable extinguishing media : No data available.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Self-contained breathing apparatus.

### SECTION 6 Accidental release measures

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

General measures : Avoid dust formation. Do not breathe dust. Forms slippery surfaces with water.

##### For non-emergency personnel

Emergency procedures : Ventilate spillage area.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Large amounts of the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal. Avoid dust formation.  
Other information : Dispose of materials or solid residues at an authorized site.

Refer to protective measures listed in Sections 7 and 8, For further information refer to section 13

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Dust may form explosive mixture in air. Keep away from sources of ignition - No smoking.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Material is hygroscopic. Protect from atmospheric moisture and water.  
Information on mixed storage : No special storage requirements.  
Specific end uses : See Heading 1.

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

glyoxal (107-22-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Glyoxal
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> (IFV - Inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: URT irr; larynx metaplasia. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

Additional information : Obey TLV for common dust, if applicable

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Avoid dust formation.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

##### Hand protection:

Not required for normal conditions of use. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

##### Eye protection:

Not required for normal conditions of use

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
breathing apparatus with filter	Type P1	Short term exposure

##### Other information:

Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product. Do not breathe dust.

### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state : Solid  
Appearance : Powder.  
Color : whitish  
Odor : characteristic  
Odor threshold : No data available  
pH : 5.5 – 8  
pH solution concentration : 10 g/l  
Melting point : Not specifically applicable  
Freezing point : Not specifically applicable  
Boiling point : Not specifically applicable

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

Flash point	: Not specifically applicable
Relative evaporation rate (butyl acetate=1)	: Not specifically applicable
Flammability (solid, gas)	: No data available
Vapor pressure	: Not specifically applicable
Relative vapor density at 20°C	: Not specifically applicable
Relative density	: Not specifically applicable
Density	: 1.1 – 1.5 g/cm <sup>3</sup> (20 °C)
Solubility	: Water: > 10 g/l (20 °C)
Log Pow	: < 0
Auto-ignition temperature	: > 120 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: Not specifically applicable
Viscosity, dynamic	: Not specifically applicable
Explosion limits	: Lower explosive limit (LEL): 30 g/m <sup>3</sup>
Explosive properties	: Product is not explosive. Dust may form explosive mixture in air.
Particle characteristics	: No data available

### Cellulose, 2 - hydroxyethyl ether, retarded

Particle characteristics	No data available
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### glyoxal

Particle characteristics	No data available
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## 9.2. Data relevant with regard to physical hazard classes (supplemental)

Minimum ignition energy	: > 10 mJ
Bulk density	: 200 – 600 g/l
Combustion class	: 5
Smoldering temperature	: 280 °C
p <sub>max</sub>	: 10 bar
Dust explosion category	: ST1
KSt	: < 200 bar*m/s
Ignition temperature	: > 460 °C

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No decomposition if stored normally.

### 10.5. Incompatible materials

Strong oxidizing agent.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### Tylose H 200000 YP2

LD50 oral rat	> 2000 mg/kg (OECD 425 method)
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#### glyoxal (107-22-2)

ATE US (gases)	4500 ppmV/4h
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ATE US (vapors)	11 mg/l/4h
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ATE US (dust, mist)	1.5 mg/l/4h
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 5.5 – 8

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 5.5 – 8

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Symptoms/effects after skin contact : May cause sensitization of susceptible persons by skin contact.

Symptoms/effects after eye contact : May cause eye irritation.

Other information : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

#### Tylose H 200000 YP2

LC50 fish 1	> 500 mg/l (OECD 203 method)
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EC50 - Other aquatic organisms [1]	> 1000 mg/l (OECD 209 method)
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# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

### 12.2. Persistence and degradability

#### Tylose H 200000 YP2

Persistence and degradability	Product is biodegradable, Does not affect the functioning of waste-water treatment plants, In case of loss of large quantities, advice local authorities
Chemical oxygen demand (COD)	< 1500 mg/g

### 12.3. Bioaccumulative potential

#### Tylose H 200000 YP2

Log Pow	< 0
Bioaccumulative potential	Not potentially bioaccumulable.

#### glyoxal (107-22-2)

Log Pow	-1.15
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### 12.4. Mobility in soil

#### Tylose H 200000 YP2

Mobility in soil	Not applicable
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### 12.5. Other adverse effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Fluorinated greenhouse gases	: No
Other information	: Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

## SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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## SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not applicable	Not regulated	Not regulated
<b>14.2. Proper Shipping Name</b>		
Not applicable	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not applicable	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not applicable	Not regulated	Not regulated

# Tylose H 200000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

DOT	IMDG	IATA
No supplementary information available		

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not applicable

#### IMDG

Not regulated

#### IATA

Not regulated

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 3/7/2025

Issue date : 12/22/2017

Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Full text of H-phrases	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

# Tylose H 20000 YP2

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS No: 10896-0082

Full text of H-phrases	
H341	Suspected of causing genetic defects.

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG	Transport of Australian Dangerous Goods

Indication of changes:		
Section	Changed item	Comments
1	Address Information	Modified

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.

APPLICATION: CONSTRUCTION

# Tylose<sup>®</sup> MHF 10016 P4

## Product properties

Tylose MHF 10016 P4 is a medium viscosity, modified methyl hydroxyethyl cellulose.

### Typical data

Viscosity *:	8000 – 15000 mPas
Moisture:	max. 6 %
NaCl content:	max. 1,5 %
Particle size:	fine powder

\* Brookfield RV, 1.9% water, 20°C, 20° dH (German hardness)

### Recommended fields of application

- Tile adhesive, premium

### Application performance

Consistency development:	fast
Final consistency:	very high
Water demand:	very high
Water retention:	moderate
Cement retardation:	moderate
Heat stability:	standard

## Application properties

Tylose MHF 10016 P4 is mainly recommended for premium cement based tile adhesives. It ensures sufficient water retention and gives very good adhesion strength. The special modification increases the thickening effect, improves the workability and leads to outstanding slip resistance and extra-long open time.

## Packaging, storage and safety instructions

This Tylose type is supplied in multilayer paper bags with polyethylene intermediate layer and/or in big bags. When kept in clean, dry conditions in its original packing, Tylose can be stored for a long time. During storage a slow loss of viscosity can be measured. Tylose absorbs water from moist air. Once opened, container must be resealed and kept tightly closed.

Like all fine particle organic substances, cellulose ethers constitute a dust explosion hazard. Dust formation and deposits must be kept to a minimum so that no ignitable dust/air mixtures can form. Ignition sources such as naked flames, hot surfaces, sparks and static electricity should be avoided.

Please refer to Safety Data Sheet (SDS) for more information.

This information is based on our present state of knowledge and is intended to provide general notes about our products and their use only. It should not therefore be construed as guaranteeing the consistence or permanency of the products or specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

### SE Tylose GmbH & Co. KG

Kasteler Straße 45 · 65203 Wiesbaden · Germany · Tel: +49 611 962-8571 · Fax: +49 611 962-9267 · [www.SETylose.com](http://www.SETylose.com) · [Info@SETylose.com](mailto:Info@SETylose.com)

10/2023

SE Tylose GmbH & Co. KG  
Quality Assurance  
Kasteler Str. 45  
65203 Wiesbaden  
Tel. +49(0)611/962-3411  
Email: quality.assurance@setylose.com



The Terra Firma  
2675 Martin Street, Suite 600  
EAST POINT GA 30344  
USA

Inspection certificate - Certificate of Analysis  
according to EN 10204-3.1

Date: 12/17/2021  
Page: 1 / 1

Your order from 07/15/2021  
Order No. : TF8468  
Delivery no./Pos. : 80273868 / 900001  
Order : 169178  
Material : TYLOSE MHS 150003 P4  
Material-no. : 10880210756  
Batch No. : DEAT425507  
Quantity : 2,000 KG

On the batch, of which the consignment is a part, the following values were determined. They conform to the agreed product specification.

Inspection characteristic/-method	Specification	Result
Date of manufacture		10/22/2021
Recommended re-evaluation date		04/23/2023
Moisture (as packed)	<= 6.0	4.8 %
NaCl	<= 1.50	0.55 %
Particle Size <0.125 mm (120 mesh)	>= 85.0	93.8 %
Particle Size <0.100 mm (140 mesh)	>= 70.0	86.4 %
Viscosity Brookf. RV - 20°C - 1.0 %	5600 - 8000	6800 mPa.s

These results refer to the date of manufacture and shall merely show the conformity of the batch delivered with the specifications currently determined for this product. The indication of the data and the recommended re-evaluation date should not be construed as guaranteeing the consistence or permanency of the product or specific properties of the product or its suitability for a particular application. The above particulars do not release the customer from the obligation to carry out an inspection of goods received.

Frank Kitzinger (inspection representative)  
This report is not to be signed.

SE Tylose Louisiana, LLC  
Quality Assurance  
26270 Hwy. 405 (River Road South)  
Plaquemine, LA 70764-6816  
Tel. 225.309.0110



The Terra Firma Company, LLC  
HS Services  
5050 Investment Dr  
Dallas TX 75236

Inspection certificate - Certificate of Analysis  
according to EN 10204-3.1

Date: 07/15/2022  
Page: 1 / 1

Your order from 05/04/2022  
Order No. : TF9500  
Delivery no./Pos. : 80286281 / 000010  
Order : 179225  
Material : Tylose H 200000 YP2  
Material-no. : 20479325008  
Batch No. : USAT220522  
Quantity : 7,000 KG

On the batch, of which the consignment is a part, the following values were determined. They conform to the agreed product specification.

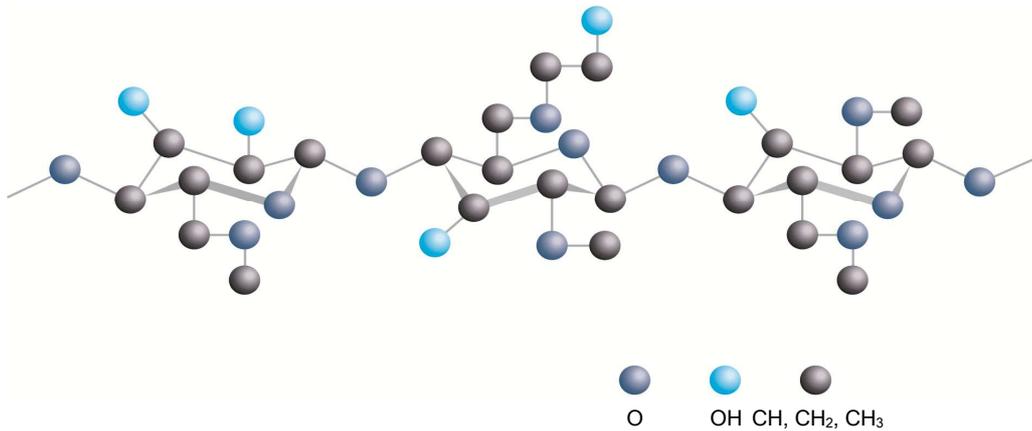
Inspection characteristic/-method	Specification	Result
Date of manufacture		06/20/2022
Recommended re-evaluation date		06/19/2024
Moisture (as packed)	<= 5.0	2.4 %
Sulphated Ash	<= 6.0	2.5 %
pH-Value (1.0 %)	5.5 - 8.0	5.9 NoDim
Particle Size <0.180 mm (80 mesh)	>= 85.0	97.3 %
Viscosity Brookf. LV - 25°C - 1.0 %	5000 - 6400	5000 mPa·s

These results refer to the date of manufacture and shall merely show the conformity of the batch delivered with the specifications currently determined for this product. The indication of the data and the recommended re-evaluation date should not be construed as guaranteeing the consistence or permanency of the product or specific properties of the product or its suitability for a particular application. The above particulars do not release the customer from the obligation to carry out an inspection of goods received.

Shawn Streacker (inspection representative)  
This report is not to be signed.

# Tylose<sup>®</sup> MHS 150003 P4

Technical Data Sheet



## Product properties

Constitution: Methylhydroxyethyl cellulose modified

Etherification: high etherification

Delayed solubility: no

Particle size: fine powder

Level of viscosity:  
according to Höppler 150000 mPa·s

## Recommended fields of application

Plasters, gypsum based

Thin layer plasters, gypsum based

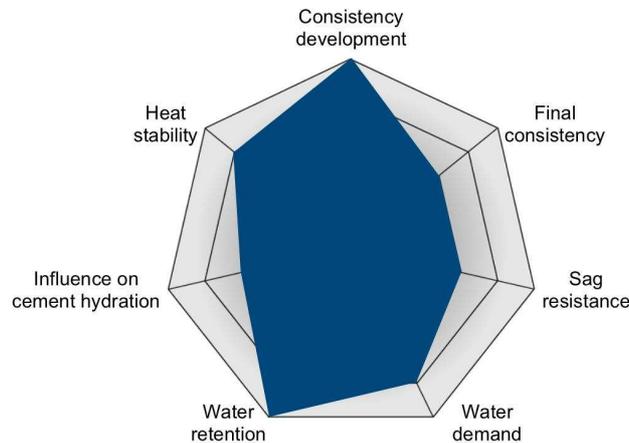
Gypsum-Lime-Plasters

Tile adhesives

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# Tylose<sup>®</sup> MHS 150003 P4

## Technical Data Sheet



### Application performance

Consistency development:	very fast	Water retention:	very high
Final consistency:	moderate	Influence on cement hydration:	moderate
Sag resistance:	moderate	Heat stability:	high
Water demand:	high		

### Packaging, Storage, Safety instructions

Like all fine-particle organic substances, cellulose ethers constitute a dust explosion hazard. Dust formation and deposits must be kept to a minimum so that no ignitable dust/air mixtures can form. Ignition sources such as naked flames, hot surfaces, sparks and static electricity should be avoided. Tylose starts to decompose at about 200°C. Its ignition temperature is >360°C. Tylose burns easily and the fire may spread.

When stored in closed containers, or in its original packaging in a dry place at room temperature, Tylose can be kept for a long time. In the case of high viscosity grades, a slow loss of viscosity can be measured after lengthy storage (>1 year). Tylose absorbs water from moist air. Once opened, container must be resealed and kept tightly closed.

This Tylose-type is supplied in multi-ply paper bags with polyethylene intermediate layer and/or in big bags.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.