deffner & Johann

Supplies for RESTORATION | CONSERVATION | ART HANDLING – SINCE 1880

SAFETY DATA SHEET

2436000 | Tylose MH 300

info@deffner-johann.de | +49 (0)9723 9350-0

Tylose MH 300

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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SDS No: 10896-0128

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

1.1. Product identifier

Product form : Substance:

Substance name Tylose MH 300

Product code : (MHEC)

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Rheological Additive
Special applications
Coating material
Chemical for use in construction

1.2.2. Uses advised against

Restrictions on use : There is no information available on applications that are not advised

1.3. Details of the supplier of the safety data sheet

Deffner & Johann GmbHMühläckerstr. 13
97520 Röthlein
09723-935 0-0
info@deffner-johann.de
www.deffner-johann.com

E-mail address of competent person responsible for the SDS: info@deffner-johann.de

1.4. Emergency telephone number

Emergency number Mo-Fr: 08:00-15:00 :+49 9723-935 0-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Handle in accordance with good industrial hygiene and safety practice.

2.3. Other hazards

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

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 MH 300

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cellulose methyl ether, 2-hydroxyethyl ether	(CAS-No.) 9032-42-2	> 92,5	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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of 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 and effects, both acute and delayed

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

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Alcohol resistant foam. Chemical powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : No data available.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO2).

5.3. Advice for firefighters

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.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

6.2. 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.

6.3. Methods and material 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.

6.4. Reference to other sections

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 any incompatibilities

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

Information on mixed storage : No special storage requirements.

7.3. Specific end use(s)

Rheological Additive. Special applications. Coating material. Chemical for use in construction.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : Obey TLV for common dust, if applicable

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid dust formation.

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	Standard
Breathing apparatus with filter	Type P1	Short term exposure	

Environmental exposure controls:

Avoid release to the environment.

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. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: whitish.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 6 - 8 10g/l
Relative evaporation rate (butylacetate=1)	: Not specifically applicable
Melting point	: Not specifically applicable
Freezing point	: Not specifically applicable
Boiling point	: Not specifically applicable
Flash point	: Not specifically applicable
Auto-ignition temperature	: > 170 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not specifically applicable
Relative vapour density at 20 °C	: Not specifically applicable
Relative density	: Not specifically applicable
Density	: 1.1 - 1.5 g/cm³ 20 °C
Solubility	: Water: > 10 g/l @ 20°C
Log Pow	: < 0
Viscosity, kinematic	: Not specifically applicable
Viscosity, dynamic	: Not specifically applicable
Explosive properties	: Product is not explosive. Dust may form explosive mixture in air.
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 30 g/m³

9.2. Other information

Minimum ignition energy	: > 10 mJ
Bulk density	: 200 - 600 g/l
Conbustion class	: 5
Smoulder temperature	: >450 °C
pmax	: 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
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Tylose MH 300	
LD50 oral rat	> 2000 mg/kg OECD 404

Skin corrosion/irritation : Not classified
pH: 6 - 8 10g/l
Serious eye damage/irritation : Not classified
pH: 6 - 8 10g/l
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
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. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

Tylose MH 300	
LC50 fish 1	> 500 mg/l (OECD 203 method)
EC50 Daphnia 1	> 100 mg/l daphnia
EC50 other aquatic organisms 1	> 1000 mg/l (OECD 209 method)
EC50 72h algae (1)	> 100 mg/l

12.2. Persistence and degradability

Tylose MH 300	
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 MH 300	
Log Pow	< 0
Bioaccumulative potential	Not potentially bioaccumulable.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Do not release undiluted or in higher quantities into the groundwater, sewerage or waters

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 16 03 06 - organic wastes other than those mentioned in 16 03 05

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Tylose MH 300 is not on the REACH Candidate ListTylose MH 300 is not on the REACH Annex XIV List

Tylose MH 300 is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
Tylose MH 300 is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistentorganic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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

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.

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 not therefore be construed as guaranteeing any specific property of the product.