SE Tylose GmbH & Co. KG

Tylose HX 6000 YG4 Plus HT
Safety Data Sheet
according to the Model Work Health and Safety Regulations
Date of issue: 17/12/2018  Revision date: 14/06/2019  Supersedes: 17/12/2018  Version: 6.1
SDS No: 10896-0388

SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier
Product form : Substance
Substance name : Tylose HX 6000 YG4 Plus HT
Product code : HEC_HX_R

1.2. Other means of identification
No additional information available

1.3. Recommended use of the chemical and restrictions on use
Recommended use : Rheological Additive
Special applications : Coating material, Chemical for use in construction
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
Rheingaustr. 190 - 196
65203 Wiesbaden - Germany
T + 49 611 962 6309
product.safety@setylose.com - www.setylose.com

Importer
Admil Adhesives
80-84 Peters Avenue
Mulgrave, VIC, 3170 - Australia
T Business Hours (03) 8544 6200
support@silicone.com.au

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number
Emergency number : Emergency CONTACT Australia (24-Hour-Number): Infotrac/GBK GmbH  +61-280735031
Customer ID: 102867

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical
Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Not classified

2.2. Label elements
No labelling applicable

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

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>%</th>
<th>Classification according to the model Work Health and Safety Regulations (WHS Regulations)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose, 2 - hydroxyethyl ether, hydrophobically modified, with delayed solubility ()</td>
<td>9004-62-0</td>
<td>&gt; 88</td>
<td>Not classified</td>
</tr>
<tr>
<td>Other substances (not contributing to the classification of this product) ()</td>
<td>&lt; 12</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>
| Glyoxal () | 107-22-2 | < 0.01 | Acute Tox. 4 (Inhalation), H332
Skin Irrit. 2, H315
Eye Irrit. 2A, H319
Skin Sens. 1, H317
Mut. 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.

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. Symptoms caused by exposure

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

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: No data available.

5.2. Special hazards arising from the substance or mixture

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

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.

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. 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”.

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.

SECTION 7: Handling and storage, including how the chemical may be safely used

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Tylose HX 6000 YG4 Plus HT

Australia: Obey TLV for common dust, if applicable

Exposure limit values for the other components

8.2. Monitoring

No additional information available
8.3. Appropriate engineering controls

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

8.4. 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.

<table>
<thead>
<tr>
<th>Device</th>
<th>Filter type</th>
<th>Condition</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breathing apparatus with filter</td>
<td>Type P1</td>
<td>Short term exposure</td>
<td></td>
</tr>
</tbody>
</table>

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

Physical state: Solid

Appearance: Powder

Colour: whitish

Odour: characteristic

Odour threshold: No data available

pH: 5.5 - 8 10g/l

Relative evaporation rate (butylacetate=1): Not specifically applicable

Melting point / Freezing point: Melting point: Not specifically applicable

Freezing point: Not specifically applicable

Boiling point: Not specifically applicable

Flash point: Not specifically applicable

Auto-ignition temperature: > 120 °C

Flammability (solid, gas): No data available

Vapour pressure: Vapour pressure: Not specifically applicable

Relative density: Relative vapour density at 20 °C: Not specifically applicable

Density: Density: 1.1 - 1.5 g/cm³ 20 °C

Relative density: Not specifically applicable

Solubility: Water: > 10 g/l @ 20°C

Log Pow: < 0

Viscosity, dynamic: Not specifically applicable

Explosive properties: Product is not explosive. Dust may form explosive mixture in air.

Explosive limits: No data available

Minimum ignition energy: > 10 mJ

Fat solubility: No data available

Combustion class: 5

Smoulder temperature: 280 °C

pmax: 10 bar

Dust explosion category: ST1

KSt: < 200 bar*m/s

Ignition temperature: > 460 °C

SECTION 10: Stability and reactivity

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

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.
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Conditions to avoid
Incompatible materials
Hazardous decomposition products

: No decomposition if stored normally.
: Strong oxidizing agent.
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity
Acute toxicity (dermal)
Acute toxicity (inhalation)

: Not classified
: Not classified
: Not classified

Tylose HX 6000 YG4 Plus HT
LD50 oral rat
> 2000 mg/kg OECD 404

Glyoxal (107-22-2)
LD50 oral
200 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)
2.44 mg/l/4h

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

: Not classified
: pH: 5.5 - 8 10g/l
: Not classified
: Not classified
: Not classified
: Not classified
: Not classified
: 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

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Ecology - general
Acute aquatic toxicity
Chronic aquatic toxicity
Other information

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
: Not classified
: Not classified
: Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

Tylose HX 6000 YG4 Plus HT
LC50 fish 1
> 500 mg/l (OECD 203 method)
EC50 other aquatic organisms 1
> 1000 mg/l (OECD 209 method)
Log Pow
< 0

Glyoxal (107-22-2)
LC50 fish 1
86 mg/l
Log Pow
-1.15

12.2. Persistence and degradability

Tylose HX 6000 YG4 Plus HT
Persistence and degradability
Chemical oxygen demand (COD)

: Product is biodegradable. Does not affect the functioning of waste-water treatment plants. In case of loss of large quantities, advice local authorities.
: < 1500 mg/g

12.3. Bioaccumulative potential

Tylose HX 6000 YG4 Plus HT
Log Pow
Bioaccumulative potential

: See section 12.1 on ecotoxicology
: Not potentially bioaccumulable.
Glyoxal (107-22-2)
Log Pow

12.4. Mobility in soil

Glyoxal (107-22-2)
Log Pow

12.5. Other adverse effects
Ozone : Not classified
Other adverse effects : No additional information available

Tylose HX 6000 YG4 Plus HT
Fluorinated greenhouse gases False

Glyoxal (107-22-2)
Fluorinated greenhouse gases False

Cellulose, 2-hydroxyethyl ether, hydrophobically modified, with delayed solubility (9004-62-0)
Fluorinated greenhouse gases False

Other substances (not contributing to the classification of this product)
Fluorinated greenhouse gases False

SECTION 13: Disposal considerations
Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Marine pollutant : No</td>
<td></td>
</tr>
</tbody>
</table>

14.6. Special precautions for user
Specific storage requirement : No data available
Shock sensitivity : No data available

14.7. Additional information
Other information : No supplementary information available

Transport by road and rail
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

14.8. Hazchem or Emergency Action Code
Hazchem Code : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other information on relevant regulations : All components of this mixture are listed on or exempted from AICS

15.2. International agreements
No additional information available

SECTION 16: Any other relevant 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
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<table>
<thead>
<tr>
<th>IMDG</th>
<th>International Maritime Dangerous Goods</th>
</tr>
</thead>
<tbody>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transport</td>
</tr>
<tr>
<td>TDG</td>
<td>Transportation of Dangerous Goods</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification, Labelling and Packaging of Chemicals</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>CAS</td>
<td>CAS (Chemical Abstracts Service) number</td>
</tr>
<tr>
<td>IBC-Code</td>
<td>International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>MARPOL 73/78</td>
<td>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships</td>
</tr>
<tr>
<td>ADG</td>
<td>Transport of Australian Dangerous Goods</td>
</tr>
</tbody>
</table>

Revision date: 14/06/2019

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-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation)</th>
<th>Acute toxicity (inhal.), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation, Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects.</td>
</tr>
</tbody>
</table>

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.