# SAFETY DATA SHEET
# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

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

### *1.1. Product identifier*

**Product name** WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Product number** 56564

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

**Identified uses** Thickener Binder Film Former Processing aid.

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

**Supplier**

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

### *1.4. Emergency telephone number*

**Emergency telephone** SGS - +32 (0)3 575 55 55 (24h)

**Sds No.** 56564

## SECTION 2: Hazards identification

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

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

### *2.2. Label elements*

**Hazard statements** EUH208 Contains GLYOXAL...%. May produce an allergic reaction.

**Supplemental label information** EUH210 Safety data sheet available on request.

### *2.3. Other hazards*

This product does not contain any substances classified as PBT or vPvB. Dust may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### *3.2. Mixtures*

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**METHYL HYDROXYETHYL CELLULOSE (HEMC)** **>= 85.0 - <= 95.0 %**

CAS number: 9032-42-2

Polymer
Acute Toxicity Estimate (oral):> 2000 mg/kg

**Classification**
Not Classified

**ANIONIC COPOLYMER** **<= 4.0 %**

CAS number: —

**Classification**
Not Classified

**SODIUM CHLORIDE** **<= 4.0 %**

CAS number: 7647-14-5 EC number: 231-598-3

Acute Toxicity Estimate (oral):3500 mg/kg
Acute Toxicity Estimate (dermal):> 10000 mg/kg
Acute Toxicity Estimate (inhalation):> 42 mg/l1 hourDust/Mist

**Classification**
Not Classified

**GLYOXAL...%** **>= 0.1 - < 1.0 %**

CAS number: 107-22-2 EC number: 203-474-9 REACH registration number: 01-2119461733-37-XXXX

Acute Toxicity Estimate (oral):> 2000 mg/kg
Acute Toxicity Estimate (dermal):> 10000 mg/kg
Acute Toxicity Estimate (inhalation):2.44 mg/l4 hoursDust/Mist

**Classification**
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Muta. 2 - H341
STOT SE 3 - H335

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS** | **< 0.15 %** |
| CAS number: 85711-69-9 | |
| M factor (Acute) = 1 | |
| Acute Toxicity Estimate (oral):500 - 2000 mg/kg<br>Acute Toxicity Estimate (dermal):> 2000 mg/kg | |

**Classification**
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

## SECTION 4: First aid measures

### *4.1. Description of first aid measures*

**General information** Wear protective clothing as described in Section 8 of this safety data sheet.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if any discomfort continues.

**Skin contact** Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**Skin contact** The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact** Solid particles trapped behind the eyelid may cause abrasive damage.

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

**Notes for the doctor** Treat symptomatically. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

### *5.1. Extinguishing media*

**Suitable extinguishing media** Extinguish with the following media: Water. Dry chemicals. Carbon dioxide ($CO_2$).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Specific hazards** When heated and in case of fire, toxic vapours/gases may be formed. Avoid generation and spreading of dust. Dust may form explosive mixture with air. Avoid heat, flames and other sources of ignition. The product increases the risk of fire and may accelerate combustion. Take precautionary measures against static discharges.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon. Nitrogen.

### *5.3. Advice for firefighters*

**Protective actions during firefighting** No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. Contain and collect extinguishing water. Evacuate area. Dust may form explosive mixture with air.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Take care as floors and other surfaces may become slippery.

### *6.2. Environmental precautions*

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Avoid generation and spreading of dust. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Do not flush away residues with water.

### *6.4. Reference to other sections*

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### *7.1. Precautions for safe handling*

**Usage precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Wash skin thoroughly after handling. Keep away from heat, sparks and open flame. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Observe good chemical hygiene practices. Dust may form explosive mixture with air. Take precautionary measures against static discharges.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Container must be kept tightly closed when not in use. Avoid heat, flames and other sources of ignition. Store away from incompatible materials (see Section 10).

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

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### *8.1. Control parameters*

**Ingredient comments** No exposure limits known for ingredient(s).

*METHYL HYDROXYETHYL CELLULOSE (HEMC) (CAS: 9032-42-2)*

**Ingredient comments** No exposure limits known for ingredient(s).

*SODIUM CHLORIDE (CAS: 7647-14-5)*

**Ingredient comments** No exposure limits known for ingredient(s).

**DNEL**
Workers - Dermal; Short term systemic effects: 295.52 mg/kg/day
Workers - Inhalation; Short term systemic effects: 2068.62 mg/m³
Workers - Dermal; Long term systemic effects: 295.52 mg/kg/day
Workers - Inhalation; Long term systemic effects: 2068.62 mg/m³
General population - Dermal; Short term systemic effects: 126.65 mg/kg/day
General population - Inhalation; Short term systemic effects: 443.28 mg/m³
General population - Oral; Short term systemic effects: 126.65 mg/kg/day
General population - Oral; Long term systemic effects: 126.65 mg/kg/day
General population - Inhalation; Long term systemic effects: 443.28 mg/m³
General population - Dermal; Long term systemic effects: 126.65 mg/kg/day

**PNEC**
Fresh water; 5 mg/l
Soil; 4.86 mg/kg
STP; 500 mg/l

*GLYOXAL...% (CAS: 107-22-2)*

**DNEL**
Workers - Dermal; Long term systemic effects: 10.8 mg/kg/day
Workers - Inhalation; Long term systemic effects: 5.29 mg/m³
Workers - Inhalation; Long term local effects: 0.04 mg/m³
Consumer - Dermal; Long term systemic effects: 5.4 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.3 mg/m³
Consumer - Oral; Long term systemic effects: 0.6 mg/kg/day
Consumer - Inhalation; Long term local effects: 0.01 mg/m³

**PNEC**
Fresh water; 0.319 mg/l
marine water; 0.0319 mg/l
Intermittent release; 1.1 mg/l
STP; 4.1 mg/l
Sediment (Freshwater); 0.685 mg/kg
Sediment (Marinewater); 0.0685 mg/kg
Soil; 4.06 mg/kg

### *8.2. Exposure controls*

**Protective equipment**

**Appropriate engineering controls** Provide adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166. |
| **Hand protection** | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. |
| **Other skin and body protection** | Wear appropriate clothing to prevent any possibility of skin contact. |
| **Hygiene measures** | When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product. |
| **Respiratory protection** | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P2. EN 136/140/141/145/143/149 |

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | Powder. Granules. |
| **Colour** | White/off-white. |
| **Odour** | Odourless. |
| **Odour threshold** | No information available. |
| **pH** | Not applicable. |
| **Melting point** | No information available. |
| **Pour Point** | No information available. |
| **Freezing Point** | Not applicable. |
| **Initial boiling point and range** | Not applicable. |
| **Flash point** | No information available. |
| **Evaporation rate** | Not applicable. |
| **Evaporation factor** | No information available. |
| **Flammability (solid, gas)** | Dust may form explosive mixture with air. |
| **Upper/lower flammability or explosive limits** | No information available. |
| **Other flammability** | No information available. |
| **Vapour pressure** | Not applicable. |
| **Vapour density** | Not applicable. |
| **Relative density** | No information available. |

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Bulk density** | No information available. |
| **Solubility(ies)** | Soluble in water. |
| **Partition coefficient** | No information available. |
| **Auto-ignition temperature** | No information available. |
| **Decomposition Temperature** | No information available. |
| **Viscosity** | Not applicable. |
| **Explosive properties** | No information available. |
| **Explosive under the influence of a flame** | No information available. |
| **Oxidising properties** | No information available. |

*9.2. Other information*

| | |
|---|---|
| **Refractive index** | No information available. |
| **Particle size** | No information available. |
| **Molecular weight** | No information available. |
| **Volatility** | No information available. |
| **Saturation concentration** | No information available. |
| **Critical temperature** | No information available. |
| **Volatile organic compound** | No information available. |

## SECTION 10: Stability and reactivity

*10.1. Reactivity*

**Reactivity** There are no known reactivity hazards associated with this product.

*10.2. Chemical stability*

**Stability** Stable at normal ambient temperatures.

*10.3. Possibility of hazardous reactions*

**Possibility of hazardous reactions** Will not polymerise.

*10.4. Conditions to avoid*

**Conditions to avoid** Keep at temperature not exceeding 130°C. Avoid excessive heat for prolonged periods of time. Static electricity and formation of sparks must be prevented.

*10.5. Incompatible materials*

**Materials to avoid** Strong oxidising agents. Strong acids. Strong alkalis.

*10.6. Hazardous decomposition products*

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon. Nitrogen.

## SECTION 11: Toxicological information

*11.1. Information on toxicological effects*

Acute toxicity - oral

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | This product has low toxicity. This information is based on test data from similar products $LD_{50}$ > 10000 mg/kg, Oral, Rat Estimated value. |

**Acute toxicity - dermal**

| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | Not determined. Information given is applicable to the major ingredient. $LD_{50}$ > 2000 mg/kg, Dermal, Estimated value. |

**Acute toxicity - inhalation**

| | |
|---|---|
| **Notes (inhalation $LC_{50}$)** | Not determined. |

**Skin corrosion/irritation**

| | |
|---|---|
| **Animal data** | This information is based on test data from similar products Not irritating. |

**Serious eye damage/irritation**

| | |
|---|---|
| **Serious eye damage/irritation** | Solid particles trapped behind the eyelid may cause abrasive damage. |

**Respiratory sensitisation**

| | |
|---|---|
| **Respiratory sensitisation** | No information available. |

**Skin sensitisation**

| | |
|---|---|
| **Skin sensitisation** | The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals. |

**Germ cell mutagenicity**

| | |
|---|---|
| **Genotoxicity - in vitro** | No information available. |

**Carcinogenicity**

| | |
|---|---|
| **Carcinogenicity** | No information available. |

**Reproductive toxicity**

| | |
|---|---|
| **Reproductive toxicity - fertility** | No information available. |

**Specific target organ toxicity - single exposure**

| | |
|---|---|
| **STOT - single exposure** | No information available. |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| **STOT - repeated exposure** | No information available. |

**Aspiration hazard**

| | |
|---|---|
| **Aspiration hazard** | Based on available data the classification criteria are not met. |

| | |
|---|---|
| **Inhalation** | Dust in high concentrations may irritate the respiratory system. |
| **Ingestion** | May cause discomfort if swallowed. |
| **Skin contact** | Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals. |
| **Eye contact** | Solid particles trapped behind the eyelid may cause abrasive damage. |

**Toxicological information on ingredients.**

***METHYL HYDROXYETHYL CELLULOSE (HEMC)***

***Acute toxicity - oral***

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | $LD_{50}$ > 2000 mg/kg, Oral, Rat |

***Acute toxicity - dermal***

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | Not determined. |
| *Acute toxicity - inhalation* | |
| **Notes (inhalation $LC_{50}$)** | Not determined. |
| *Skin corrosion/irritation* | |
| **Animal data** | Not irritating. |
| *Serious eye damage/irritation* | |
| **Serious eye damage/irritation** | Not irritating. |
| *Respiratory sensitisation* | |
| **Respiratory sensitisation** | No information available. |
| *Skin sensitisation* | |
| **Skin sensitisation** | No information available. |
| *Germ cell mutagenicity* | |
| **Genotoxicity - in vitro** | This substance has no evidence of mutagenic properties. |
| **Genotoxicity - in vivo** | This substance has no evidence of mutagenic properties. |
| *Carcinogenicity* | |
| **Carcinogenicity** | This information is based on test data from similar products No evidence of carcinogenicity in animal studies. |
| *Reproductive toxicity* | |
| **Reproductive toxicity - fertility** | This information is based on test data from similar products No evidence of reproductive toxicity in animal studies. |
| **Reproductive toxicity - development** | This information is based on test data from similar products No evidence of reproductive toxicity in animal studies. |
| *Specific target organ toxicity - single exposure* | |
| **STOT - single exposure** | Not classified as a specific target organ toxicant after a single exposure. |
| *Specific target organ toxicity - repeated exposure* | |
| **STOT - repeated exposure** | This information is based on test data from similar products Not classified as a specific target organ toxicant after repeated exposure. |
| *Aspiration hazard* | |
| **Aspiration hazard** | Based on available data the classification criteria are not met. |
| | |
| **Toxicokinetics** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| **Inhalation** | Dust in high concentrations may irritate the respiratory system. |
| **Ingestion** | May cause discomfort if swallowed. |
| **Skin contact** | Skin irritation should not occur when used as recommended. |
| **Eye contact** | Solid particles trapped behind the eyelid may cause abrasive damage. |

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

*SODIUM CHLORIDE*

*Acute toxicity - oral*

| | |
|---|---|
| Acute toxicity oral ($LD_{50}$ mg/kg) | 3,500.0 |
| Species | Rat |
| ATE oral (mg/kg) | 3,500.0 |

*Acute toxicity - dermal*

| | |
|---|---|
| Notes (dermal $LD_{50}$) | $LD_{50}$ > 10000 mg/kg, Dermal, Rat |

*Acute toxicity - inhalation*

| | |
|---|---|
| Notes (inhalation $LC_{50}$) | $LC_{50}$ (1h) >42 mg/l, Inhalation, Dust/Mist, Rat |

*Skin corrosion/irritation*

| | |
|---|---|
| Skin corrosion/irritation | Prolonged skin contact may cause redness and irritation. |

*Serious eye damage/irritation*

| | |
|---|---|
| Serious eye damage/irritation | May be slightly irritating to eyes. |

*Respiratory sensitisation*

| | |
|---|---|
| Respiratory sensitisation | Not sensitising. |

*Skin sensitisation*

| | |
|---|---|
| Skin sensitisation | Based on available data the classification criteria are not met. |

*Germ cell mutagenicity*

| | |
|---|---|
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
| Genotoxicity - in vivo | Based on available data the classification criteria are not met. |

*Carcinogenicity*

| | |
|---|---|
| Carcinogenicity | Based on available data the classification criteria are not met. |

*Reproductive toxicity*

| | |
|---|---|
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. |

*Specific target organ toxicity - single exposure*

| | |
|---|---|
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |

*Specific target organ toxicity - repeated exposure*

| | |
|---|---|
| STOT - repeated exposure | Based on available data the classification criteria are not met. |

*Aspiration hazard*

| | |
|---|---|
| Aspiration hazard | Based on available data the classification criteria are not met. |

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Toxicokinetics** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| **Inhalation** | Dust in high concentrations may irritate the respiratory system. |
| **Ingestion** | No harmful effects expected from quantities likely to be ingested by accident. |
| **Skin contact** | Prolonged skin contact may cause redness and irritation. |
| **Eye contact** | Solid particles trapped behind the eyelid may cause abrasive damage. |

***GLYOXAL...%***

*Acute toxicity - oral*

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rat |
| **Notes (oral $LD_{50}$)** | $LD_{50}$ > 2000 mg/kg, Oral, Rat OECD 401 |

*Acute toxicity - dermal*

| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | $LD_{50}$ > 10000 mg/kg, Dermal, Rabbit |

*Acute toxicity - inhalation*

| | |
|---|---|
| **Notes (inhalation $LC_{50}$)** | $LC_{50}$ 2.44 mg/l, 4 hours, Dust/Mist Rat OECD 403 Harmful if inhaled. |
| **ATE inhalation (gases ppm)** | 4,500.0 |
| **ATE inhalation (vapours mg/l)** | 11.0 |
| **ATE inhalation (dusts/mists mg/l)** | 2.44 |

*Skin corrosion/irritation*

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. Redness. Prolonged contact may cause burns. Prolonged contact causes serious tissue damage. |

*Serious eye damage/irritation*

| | |
|---|---|
| **Serious eye damage/irritation** | Causes serious eye irritation. |

*Respiratory sensitisation*

| | |
|---|---|
| **Respiratory sensitisation** | No information available. |

*Skin sensitisation*

| | |
|---|---|
| **Skin sensitisation** | May cause an allergic skin reaction. |

*Germ cell mutagenicity*

| | |
|---|---|
| **Genotoxicity - in vitro** | Suspected of causing genetic defects. |

*Carcinogenicity*

| | |
|---|---|
| **Carcinogenicity** | No evidence of carcinogenicity in animal studies. |

*Reproductive toxicity*

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Reproductive toxicity - fertility** | No evidence of reproductive toxicity in animal studies. |
| **Reproductive toxicity - development** | No evidence of reproductive toxicity in animal studies. |

*Specific target organ toxicity - single exposure*

| | |
|---|---|
| **STOT - single exposure** | May cause respiratory irritation. |
| **Target organs** | Respiratory system, lungs |

*Specific target organ toxicity - repeated exposure*

| | |
|---|---|
| **STOT - repeated exposure** | Based on available data the classification criteria are not met. |

*Aspiration hazard*

| | |
|---|---|
| **Aspiration hazard** | No information available. |

| | |
|---|---|
| **Toxicokinetics** | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| **Inhalation** | Harmful if inhaled. May cause respiratory irritation. Dizziness. |
| **Ingestion** | May cause discomfort if swallowed. |
| **Skin contact** | Causes skin irritation. May cause an allergic skin reaction. |
| **Eye contact** | Causes serious eye irritation. |
| **Acute and chronic health hazards** | Suspected of causing genetic defects. |

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

*Acute toxicity - oral*

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | Harmful if swallowed. This information is based on test data from similar products $LD_{50}$ 500 - 2000 mg/kg, Oral, Rat OECD 401 |
| **ATE oral (mg/kg)** | 500.0 |

*Acute toxicity - dermal*

| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | This information is based on test data from similar products $LD_{50}$ > 2000 mg/kg, Dermal, Mouse |

*Acute toxicity - inhalation*

| | |
|---|---|
| **Notes (inhalation $LC_{50}$)** | Not determined. |

*Skin corrosion/irritation*

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |

*Serious eye damage/irritation*

| | |
|---|---|
| **Serious eye damage/irritation** | Causes serious eye damage. |

*Respiratory sensitisation*

| | |
|---|---|
| **Respiratory sensitisation** | No information available. |

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

*Skin sensitisation*

**Skin sensitisation** Not sensitising. Guinea pig

*Germ cell mutagenicity*

**Genotoxicity - in vitro** This information is based on test data from similar products Negative.

*Carcinogenicity*

**Carcinogenicity** This information is based on test data from similar products No evidence of carcinogenicity in animal studies.

*Reproductive toxicity*

**Reproductive toxicity - fertility** This information is based on test data from similar products No evidence of reproductive toxicity in animal studies.

*Specific target organ toxicity - single exposure*

**STOT - single exposure** No information available.

*Specific target organ toxicity - repeated exposure*

**STOT - repeated exposure** Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

*Aspiration hazard*

**Aspiration hazard** No information available.

**Inhalation** Dust in high concentrations may irritate the respiratory system.

**Ingestion** Harmful if swallowed.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

## SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

**Ecological information on ingredients.**

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

*SODIUM CHLORIDE*

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

*GLYOXAL...%*

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Ecotoxicity** Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

*12.1. Toxicity*

**Toxicity** Not considered toxic to fish.

**Acute aquatic toxicity**

**Acute toxicity - fish** No information available.

**Ecological information on ingredients.**

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Toxicity** Not considered toxic to fish.

*SODIUM CHLORIDE*

**Toxicity** Not considered toxic to fish.

*Acute aquatic toxicity*

**Acute toxicity - fish**
$LC_{50}$, 96 hours: 6750 mg/l, Fish
$LC_{50}$, 96 hour: 5840 mg/l, Lepomis macrochirus (Bluegill)
OECD 203
$LC_{50}$, 96 hour: 10610 mg/l, Pimephales promelas (Fat-head Minnow)
OECD 203
NOEC, 7 day: 4000 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** $EC_{50}$, 48 hours: 2024 - 4136 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** $IC_{50}$, 72 hours: 3014 mg/l, Algae

**Acute toxicity - microorganisms** $IC_{50}$, : > 1000 mg/l, Activated sludge
OECD 209

*Chronic aquatic toxicity*

**Chronic toxicity - aquatic invertebrates**
LOEC, 21 day: 441 mg/l, Freshwater invertebrates
Daphnia pulex
NOEC, 21 day: 314 mg/l, Freshwater invertebrates
Daphnia pulex

*GLYOXAL...%*

**Toxicity** Not considered toxic to fish.

*Acute aquatic toxicity*

**Acute toxicity - fish**
LC50, 96 hours: 215 mg/l, Pimephales promelas (Fat-head Minnow)
$LC_{50}$, 96 hours: 460 - 680 mg/l, Leuciscus idus (Golden orfe)
$LC_{50}$, 48 hours: 780 - 1100 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** $EC_{50}$, 48 hours: 404 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**
ErC50, 72 hours: >500 mg/l, Scenedesmus subspicatus
ErC50, 96 hours: > 750 mg/l,
Skeletonema costatum (marine diatom)
OECD 201

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Acute toxicity - microorganisms** | $EC_{50}$, 30 minutes: > 1000 mg/l, Activated sludge<br>OECD 209<br>$EC_{50}$, 16 hours: 134 mg/l, |

*Chronic aquatic toxicity*

| | |
|---|---|
| **Chronic toxicity - fish early life stage** | NOEC, 34 days: 300 mg/l, Pimephales promelas (Fat-head Minnow) |
| **Chronic toxicity - aquatic invertebrates** | NOEC, 21 days: 7.96 mg/l, Daphnia magna<br>LOEC, 21 days: 12.1 mg/l, Daphnia magna<br>$EC_{50}$, 21 days: >=33.2 mg/l, Daphnia magna |
| **Toxicity to terrestrial plants** | EC50 >1000 mg/l |

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

*Acute aquatic toxicity*

| | |
|---|---|
| **LE(C)$_{50}$** | 0.1 < L(E)C50 ≤ 1 |
| **M factor (Acute)** | 1 |
| **Acute toxicity - fish** | $LC_{50}$, 96 hour: 1 - 10 mg/l, Brachydanio rerio (Zebra Fish)<br>OECD 203 |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hour: 9.81 mg/l, Daphnia magna<br>OECD 202 |
| **Acute toxicity - aquatic plants** | ErC50, 72 hour: > 61 mg/l, Desmodesmus subspicatus<br>OECD 201<br>EC10, 72 hour: 96.4 mg/l, Desmodesmus subspicatus<br>OECD 201<br>Read-across data.<br>$EC_{50}$, 72 hour: > 100 mg/l, Desmodesmus subspicatus<br>OECD 201<br>Read-across data. |
| **Acute toxicity - microorganisms** | NOEC, 16 hour: 1000 mg/l,<br>Pseudomonas putida<br>Read-across data. |

*Chronic aquatic toxicity*

| | |
|---|---|
| **Chronic toxicity - fish early life stage** | This information is based on test data from similar products<br>NOEC, 28 days: 1.4 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| **Chronic toxicity - aquatic invertebrates** | NOEC, 22 day: 0.6 mg/l, Daphnia magna<br>Read-across data. |

### *12.2. Persistence and degradability*

**Persistence and degradability** There are no data on the degradability of this product.

**Ecological information on ingredients.**

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

| | |
|---|---|
| **Persistence and degradability** | The product is not readily biodegradable. |

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Biodegradation** - Degradation 0%: 28 day
OECD 301E
- Degradation 11%: 28 day
OECD 302B

*SODIUM CHLORIDE*

**Persistence and degradability** Substance is inorganic.

*GLYOXAL...%*

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** - Degradation 98%: 14 days

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** - Degradation 78%: 28 day
OECD 301B
- Degradation 89%: 28 day
OECD 301E
- Degradation 96.2%: 34 day
OECD 301A

### *12.3. Bioaccumulative potential*

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

**Ecological information on ingredients.**

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

*SODIUM CHLORIDE*

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** log Pow: -3

*GLYOXAL...%*

**Bioaccumulative potential** BCF: <100, Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -0.85

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

**Bioaccumulative potential** Not applicable.

### *12.4. Mobility in soil*

**Mobility** No information available.

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

Ecological information on ingredients.

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Mobility** No information available.

*SODIUM CHLORIDE*

**Mobility** The product is soluble in water.

*GLYOXAL...%*

**Mobility** No information available.

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

**Mobility** No information available.

*12.5. Results of PBT and vPvB assessment*

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

*SODIUM CHLORIDE*

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

*GLYOXAL...%*

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

*12.6. Other adverse effects*

**Other adverse effects** No information available.

Ecological information on ingredients.

*METHYL HYDROXYETHYL CELLULOSE (HEMC)*

**Other adverse effects** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

*SODIUM CHLORIDE*

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**Other adverse effects** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

*GLYOXAL...%*

**Other adverse effects** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

*SULFONIC ACIDS, C13-17-SEC-N-ALKANE, SODIUM SALTS*

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### *13.1. Waste treatment methods*

**General information** Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### *14.1. UN number*

Not applicable.

### *14.2. UN proper shipping name*

Not applicable.

### *14.3. Transport hazard class(es)*

No transport warning sign required.

### *14.4. Packing group*

Not applicable.

### *14.5. Environmental hazards*

**Environmentally hazardous substance/marine pollutant**
No.

### *14.6. Special precautions for user*

Not applicable.

### *14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code*

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

**EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

### *15.2. Chemical safety assessment*

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms used in the safety data sheet**

ATE: Acute Toxicity Estimate.
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.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
$LC_{50}$: Lethal Concentration to 50 % of a test population.
$LD_{50}$: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
$EC_{50}$: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

# WALOCEL MW 40000 PFV METHYL HYDROXYETHYL CELLULOSE

| | |
|---|---|
| **Classification abbreviations and acronyms** | Acute Tox. = Acute toxicity<br>Aquatic Acute = Hazardous to the aquatic environment (acute)<br>Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
| **Key literature references and sources for data** | Supplier's information. |
| **Classification procedures according to Regulation (EC) 1272/2008** | Not classified.: Calculation method. EUH208: Calculation method. |
| **Revision comments** | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Revision date** | 28/09/2022 |
| **Version number** | 3.000 |
| **Supersedes date** | 07/08/2019 |
| **SDS number** | 56564 |
| **SDS status** | Approved. |
| **Hazard statements in full** | H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H335 May cause respiratory irritation.<br>H341 Suspected of causing genetic defects.<br>H400 Very toxic to aquatic life.<br>H412 Harmful to aquatic life with long lasting effects.<br>EUH208 Contains GLYOXAL...%. May produce an allergic reaction. |
| **Signature** | Lisa Bland |