KORACHEM

# SAFETY DATA SHEET of:

# POLYAC 18

**Revision date: Wednesday, January 31, 2024**

S123.454

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

### 1.1 Product identifier:

# POLYAC 18

**UFI:** /

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

/

Concentration in use: /

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

**KORACHEM NV**

Gulkenrodestraat 3

B2160 Wommelgem

Phone: 033200211 — E-mail: info@korachem.com — Website: http://www.korachem.com/

### 1.4 Emergency telephone number:

+32 70 245 245

## SECTION 2: Hazards identification:

### 2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008

H225 Flam. Liq. 2 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H335 STOT SE 3 EUH208

### 2.2 Label elements:

Pictograms

### Signal word

Danger

### Hazard statements

| | |
|---|---|
| **H225 Flam. Liq. 2:** | Highly flammable liquid and vapour. |
| **H315 Skin Irrit. 2:** | Causes skin irritation. |
| **H317 Skin Sens. 1:** | May cause an allergic skin reaction. |
| **H319 Eye Irrit. 2:** | Causes serious eye irritation. |
| **H335 STOT SE 3:** | May cause respiratory irritation. |
| **EUH208:** | Contains ( Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- ). May produce an allergic reaction. |

### Precautionary statements

| | |
|---|---|
| **P280:** | Wear protective gloves, protective clothing, eye protection, face protection. |
| **P302+P352:** | IF ON SKIN: Wash with plenty of soap and water. |
| **P305+P351+P338:** | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| **P362+P364:** | Take off contaminated clothing and wash it before reuse. |
| **P403+P233:** | Store in a well-ventilated place. Keep container tightly closed. |
| **P501:** | Dispose of contents/container in accordance with local/regional/national/international regulations. |

### Contains

2-hydroxyethyl methacrylate  methyl methacrylate

### 2.3 Other hazards:

None

## SECTION 3: Composition/information on ingredients:

### 3.2 Mixtures:

| | | | |
|---|---|---|---|
| methyl methacrylate | ≤ 50 % | CAS number: | 80-62-6 |
| | | EINECS: | 201-297-1 |
| | | REACH Registration number: | 01-2119452498-28 |
| | | CLP Classification: | H225 Flam. Liq. 2<br>H315 Skin Irrit. 2<br>H317 Skin Sens. 1<br>H335 STOT SE 3 |
| 2-hydroxyethyl methacrylate | ≤ 30 % | CAS number: | 868-77-9 |
| | | EINECS: | 212-782-2 |
| | | REACH Registration number: | 01-2119490169-29 |
| | | CLP Classification: | H315 Skin Irrit. 2<br>H317 Skin Sens. 1<br>H319 Eye Irrit. 2 |

| | | | |
|---|---|---|---|
| Propylidynetrimethyl trimethacrylate | ≤ 2 % | CAS number:<br>EINECS:<br>REACH Registration number:<br>CLP Classification: | 3290-92-4<br>221-950-4<br>01-2119542176-41<br>H411 Aquatic Chronic 2 |
| Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | ≤ 0.8 % | CAS number:<br>EINECS:<br>REACH Registration number:<br>CLP Classification: | /<br>911-490-9<br>01-2119979579-10<br>H302 Acute tox. 4 H315 Skin Irrit. 2 H317 Skin Sens. 1B H318 Eye Dam. 1 H412 Aquatic Chronic 3 |
| Hydrocarbons, C7-C9, isoalkanes | ≤ 0.4 % | CAS number:<br>EINECS:<br>REACH Registration number:<br>CLP Classification: | /<br>921-728-3<br>01-2119471305-42<br>H225 Flam. Liq. 2 H304 Asp. Tox. 1 H315 Skin Irrit. 2 H336 STOT SE 3 H411 Aquatic Chronic 2 |
| Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | ≤ 0.3 % | CAS number:<br>EINECS:<br>REACH Registration number:<br>CLP Classification: | /<br>919-446-0<br>01-2119458049-33<br>EUH066 H226 Flam. Liq. 3 H304 Asp. Tox. 1 H336 STOT SE 3 H372 STOT RE 1 H411 Aquatic Chronic 2 |

For the full text of the H phrases mentioned in this section, see section 16.

## SECTION 4: First aid measures:

### 4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

**Skin contact:** Remove contaminated clothing, rinse skin with plenty of water, if necessary seek medical attention.

**Eye contact:** Thoroughly rinse with water (contact lenses to be removed if this is easily done) then take to physician.

**Ingestion:** Rinse mouth, do not induce vomiting, take to hospital immediately.

**Inhalation:** Let sit upright, fresh air, rest and take to hospital.

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

**Skin contact:** Redness, pain

**Eye contact:** Redness, pain, blurred vision

**Ingestion:** Diarrhoea, headache, abdominal cramps, sleepiness, vomiting

**Inhalation:** Sore throat, cough, shortness of breath, headache

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

None

## SECTION 5: Firefighting measures:

### 5.1 Extinguishing media:

CO2, foam, powder, sprayed water

### 5.2 Special hazards arising from the substance or mixture:

None

### 5.3 Advice for firefighters:

**Extinguishing agents to be avoided:** None

## SECTION 6: Accidental release measures:

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

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

### 6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

### 6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

### 6.4 Reference to other sections:

For further information, check sections 8 & 13.

## SECTION 7: Handling and storage:

### 7.1 Precautions for safe handling:

Handle with care to avoid spillage.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep in a sealed container in a closed, frost-free, ventilated room.

### 7.3 Specific end use(s):

/

## SECTION 8: Exposure controls/personal protection:

### 8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the workplace exposure limit values are known

Hydrocarbons, C7-C9, isoalkanes 1400 mg/m³, Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 533 mg/m³

### 8.2 Exposure controls:

| | | |
|---|---|---|
| **Inhalation protection:** | If necessary, use an air-purifying face mask in case of respiratory hazards. | |
| **Skin protection:** | Handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands. | |
| **Eye protection:** | Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems. | |
| **Other protection:** | Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question. | |
| **Environmental controls:** | Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. For further information, check sections 6 and 13. | |
| **Engineering controls:** | The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. For further information, check section 7. | |

## SECTION 9: Physical and chemical properties:

### 9.1 Information on basic physical and chemical properties:

| | |
|---|---|
| **Physical state, 20°C:** | Liquid |
| **Colour:** | brown |
| **Odour:** | characteristic |
| **Melting point/freezing point:** | / |
| **Boiling point/Boiling range:** | 100 °C — 356 °C |
| **Flammability (solid, gas):** | Not applicable |
| **Lower explosive limit, (Vol %):** | 0.700 % |
| **Upper explosive limit, (Vol %):** | 12.500 % |
| **Flash point:** | 11 °C |
| **Auto-ignition temperature:** | 380 °C |
| **Decomposition temperature:** | / |
| **pH:** | / |
| **pH 1% diluted in water:** | / |
| **Kinematic viscosity, 40°C:** | / |
| **Solubility in water:** | Not soluble |
| **Partition coefficient: n-octanol/water (log value):** | Not applicable |

| | |
|---|---|
| **Vapour pressure, 20°C,:** | 51,300 Pa |
| **Relative density, 20°C:** | / |
| **Vapour density:** | Not applicable |
| **Particle characteristics:** | / |

### 9.2 Other information:

| | |
|---|---|
| **Dynamic viscosity, 20°C:** | / |
| **Sustained combustion test:** | / |
| **Evaporation rate (n-BuAc = 1):** | 1.500 |
| **Volatile organic component (VOC):** | 72.89 % |
| **Volatile organic component (VOC):** | / |

## SECTION 10: Stability and reactivity:

### 10.1 Reactivity:

Stable under normal conditions.

### 10.2 Chemical stability:

Extremely high or low temperatures.

### 10.3 Possibility of hazardous reactions:

None

### 10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

### 10.5 Incompatible materials:

Acids, alkalines, oxidants, reductants

### 10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

## SECTION 11: Toxicological information:

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

a) acute toxicity:

Not classified according to the CLP calculation method

| | |
|---|---|
| **Calculated acute toxicity, ATE oral:** | > 2,000 mg/kg |
| **Calculated acute toxicity, ATE dermal:** | > 2,000 mg/kg |

| | | |
|---|---|---|
| methyl methacrylate | LD50 oral, rat: | ≥ 5,000 mg/kg |
| | LD50 dermal, rabbit: | ≥ 5,000 mg/kg |
| | LC50, Inhalation, rat, 4h: | ≥ 50 mg/l |

| | | |
|---|---|---|
| 2-hydroxyethyl methacrylate | LD50 oral, rat:<br>LD50 dermal, rabbit:<br>LC50, Inhalation, rat, 4h: | ≥ 5,000 mg/kg<br>≥ 5,000 mg/kg<br>≥ 50 mg/l |
| Propylidynetrimethyl trimethacrylate | LD50 oral, rat:<br>LD50 dermal, rabbit:<br>LC50, Inhalation, rat, 4h: | ≥ 5,000 mg/kg<br>≥ 5,000 mg/kg<br>≥ 50 mg/l |
| Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | LD50 oral, rat:<br>LD50 dermal, rabbit:<br>LC50, Inhalation, rat, 4h: | 619 mg/kg<br>≥ 5,000 mg/kg<br>≥ 50 mg/l |
| Hydrocarbons, C7-C9, isoalkanes | LD50 oral, rat:<br>LD50 dermal, rabbit:<br>LC50, Inhalation, rat, 4h: | 2,000 mg/kg<br>≥ 5,000 mg/kg<br>≥ 50 mg/l |
| Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | LD50 oral, rat:<br>LD50 dermal, rabbit:<br>LC50, Inhalation, rat, 4h: | 2,000 mg/kg<br>≥ 5,000 mg/kg<br>≥ 50 mg/l |

b) skin corrosion/irritation:

H315 Skin Irrit. 2: Causes skin irritation.

c) serious eye damage/irritation:

H319 Eye Irrit. 2: Causes serious eye irritation.

d) respiratory or skin sensitisation:

H317 Skin Sens. 1: May cause an allergic skin reaction.

e) germ cell mutagenicity:

Not classified according to the CLP calculation method

f) carcinogenicity:

Not classified according to the CLP calculation method

g) reproductive toxicity:

Not classified according to the CLP calculation method

h) STOT-single exposure:

H335 STOT SE 3: May cause respiratory irritation.

i) STOT-repeated exposure:

Not classified according to the CLP calculation method

j) aspiration hazard:

Not classified according to the CLP calculation method

### 11.2 Information on other hazards:

No additional data available

## SECTION 12: Ecological information:

### 12.1 Toxicity:

| | | |
|---|---|---|
| methyl methacrylate | LC50 (Fish): | > 79 mg/L (96h) |
| | NOEC (Fish): | 40 mg/L (96h) |
| | EC50 (Daphnia): | 69 mg/L (48h) |
| | NOEC (Daphnia): | 48 mg/L (48h) |
| | EC50 (Algae): | > 110 mg/L (72h) |
| | NOEC (Algae): | 49 mg/L (72h) |
| Propylidynetrimethyl trimethacrylate | LC50 (Fish): | 3.6 mg/L (48h) |
| | NOEC (Fish): | 0.138 mg/L (32d) |
| | EC50 (Daphnia): | > 9.22 mg/L (48h) |
| | NOEC (Daphnia): | > 9.2 mg/L (48h) |
| | NOEC (Algae): | 0.177 mg/L (72h) |
| Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | LC50 (Fish): | >100 mg/L (96h) |
| | EC50 (Daphnia): | 48 mg/L (48h) |

### 12.2 Persistence and degradability:

No additional data available

### 12.3 Bioaccumulative potential:

| | Additional data: |
|---|---|
| Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | Log Kow = 2,17 |

### 12.4 Mobility in soil:

**Water hazard class, WGK (AwSV):** 1

**Solubility in water:** Not soluble

### 12.5 Results of PBT and vPvB assessment:

No additional data available

### 12.6 Endocrine disrupting properties:

No additional data available

### 12.7 Other adverse effects:

No additional data available

## SECTION 13: Disposal considerations:

### 13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

## SECTION 14: Transport information:

### 14.1 UN number or ID number:

1866

### 14.2 UN proper shipping name:

UN 1866 Resin Solution, 3, II, (D/E)

### 14.3 Transport hazard class(es):

| | |
|---|---|
| **Class(es):** | 3 |
| **Identification number of the hazard:** | 33 |

### 14.4 Packing group:

II

### 14.5 Environmental hazards:

Not dangerous to the environment

### 14.6 Special precautions for user:

| | |
|---|---|
| **Hazard characteristics:** | Risk of fire. Risk of explosion. Containments may explode when heated. |
| **Additional guidance:** | Take cover. Keep out of low areas. |

### 14.7 Maritime transport in bulk according to IMO instruments:

Not applicable

## SECTION 15: Regulatory information:

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

| | |
|---|---|
| **Water hazard class, WGK (AwSV):** | 1 |
| **Volatile organic component (VOC):** | 72.891 % |
| **Volatile organic component (VOC):** | / |
| **Composition by regulation (EC) 648/2004:** | Aliphatic hydrocarbons < 5%, Aromatic hydrocarbons < 5% |

### 15.2 Chemical Safety Assessment:

No data available

## SECTION 16: Other information:

### Legend to abbreviations used in the safety data sheet:

| | |
|---|---|
| **ADR:** | The European Agreement concerning the International Carriage of Dangerous Goods by Road |
| **ATE:** | Acute Toxicity Estimate |
| **BCF:** | Bioconcentration factor |
| **CAS:** | Chemical Abstracts Service |
| **CLP:** | Classification, Labelling and Packaging of chemicals |
| **EINECS:** | European INventory of Existing commercial Chemical Substances |
| **LC50:** | median Lethal Concentration for 50% of subjects |
| **LD50:** | median Lethal Dose for 50% of subjects |
| **Nr.:** | Number |
| **PBT:** | Persistent, Toxic, Bioaccumulative |
| **STOT:** | Specific Target Organ Toxicity |
| **UFI:** | Unique Formula Identifier |
| **vPvB:** | very Persistent and very Bioaccumulative substances |
| **WGK:** | Water hazard class |
| **WGK 1:** | Slightly hazardous for water |
| **WGK 2:** | Hazardous for water |
| **WGK 3:** | Extremely hazardous for water |

### Legend to the H Phrases used in the safety data sheet

EUH208 Contains ( Reaction mass of 2,2´-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- ). May produce an allergic reaction. EUH066: Repeated exposure may cause skin dryness or cracking. H225 Flam. Liq. 2: Highly flammable liquid and vapour. H226 Flam. Liq. 3: Flammable liquid and vapour. H302 Acute tox. 4: Harmful if swallowed. H304 Asp. Tox. 1: May be fatal if swallowed and enters airways. H315 Skin Irrit. 2: Causes skin irritation. H317 Skin Sens. 1: May cause an allergic skin reaction. H317 Skin Sens. 1B: May cause an allergic skin reaction. H318 Eye Dam. 1: Causes serious eye damage. H319 Eye Irrit. 2: Causes serious eye irritation. H335 STOT SE 3: May cause respiratory irritation. H336 STOT SE 3: May cause drowsiness or dizziness. H372 STOT RE 1: Causes damage to organs through prolonged or repeated exposure. H411 Aquatic Chronic 2: Toxic to aquatic life with long lasting effects. H412 Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

### CLP Calculation method

Calculation method

### Reason of revision, changes of following items

None

### SDS reference number

ECM-108957,00

*This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2020/878. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application , the user must carry out a material suitability and safety study himself.*