

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2023-30 A

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 16.05.2018  |
| 2.0     | 24.06.2021     | 400000007157 | Date of first issue: 16.05.2018 |

Print Date 13.02.2024

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

#### 1.1 Product identifier

Trade name : ARALDITE® 2023-30 A

Unique Formula Identifier (UFI) : 9P04-10RH-900W-A600

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

Use of the Substance/Mixture : Resin

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

Company : Huntsman Advanced Materials (Europe)BVBA  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40

E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:  
ANGERS: 02 41 48 21 21  
BORDEAUX: 05 56 96 40 80  
LILLE: 0 825 812 822  
LYON: 04 72 11 69 11  
MARSEILLE 04 91 75 25 25  
NANCY: 03 83 32 36 36  
PARIS: 01 40 05 48 48  
RENNES: 02 99 59 22 22  
STRASBOURG: 03 88 37 37 37  
TOULOUSE: 05 61 77 74 47  
EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1/800/424.9300

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|                                                                                  |                                            |
|----------------------------------------------------------------------------------|--------------------------------------------|
| Flammable liquids, Category 2                                                    | H225: Highly flammable liquid and vapour.  |
| Skin irritation, Category 2                                                      | H315: Causes skin irritation.              |
| Eye irritation, Category 2                                                       | H319: Causes serious eye irritation.       |
| Skin sensitisation, Category 1                                                   | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation.    |

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

|                   |   |      |                                      |
|-------------------|---|------|--------------------------------------|
| Hazard statements | : | H225 | Highly flammable liquid and vapour.  |
|                   |   | H315 | Causes skin irritation.              |
|                   |   | H317 | May cause an allergic skin reaction. |
|                   |   | H319 | Causes serious eye irritation.       |
|                   |   | H335 | May cause respiratory irritation.    |

|                          |      |                                                                                                   |                                                                                                |
|--------------------------|------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Precautionary statements | :    | <b>Prevention:</b>                                                                                |                                                                                                |
|                          |      | P210                                                                                              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|                          |      | P233                                                                                              | Keep container tightly closed.                                                                 |
|                          |      | P261                                                                                              | Avoid breathing mist or vapours.                                                               |
|                          |      | P264                                                                                              | Wash skin thoroughly after handling.                                                           |
|                          | P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |                                                                                                |
|                          |      | <b>Response:</b>                                                                                  |                                                                                                |
|                          |      | P370 + P378                                                                                       | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.           |

Hazardous components which must be listed on the label:

methyl methacrylate

Octadecyl methacrylate

methacrylic acid

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2,2'-[(4-Methylphenyl)imino]bisethanol

### Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: 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

Toxicological information: 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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name          | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number       | Classification                                                                                                                                                                     | Concentration<br>(% w/w) |
|------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| methyl methacrylate    | 80-62-6<br>201-297-1<br>607-035-00-6<br>01-2119452498-28    | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)                                                                         | >= 30 -<br>< 50          |
| Octadecyl methacrylate | 32360-05-7<br>251-013-5<br>607-134-00-4<br>01-2119489777-13 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit<br>STOT SE 3; H335<br>>= 10 %                          | >= 1 - <<br>10           |
| methacrylic acid       | 79-41-4<br>201-204-4<br>607-088-00-5<br>01-2119463884-26    | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 3; H311<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration | >= 1 - <<br>3            |

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|                                        |                                                            |                                                                                                                                                                          |                |
|----------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                        |                                                            | limit<br>STOT SE 3; H335<br>≥ 1 %<br>Skin Corr. 1A; H314<br>≥ 10 %<br>Skin Irrit. 2; H315<br>1 - < 10 %<br>Eye Dam. 1; H318<br>≥ 3 %<br>Eye Irrit. 2A; H319<br>1 - < 3 % |                |
| Hexadecyl methacrylat                  | 2495-27-4<br>219-672-3<br>607-134-00-4<br>01-2119489776-15 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit<br>STOT SE 3; H335<br>≥ 10 %                 | ≥ 1 - < 10     |
| 2,2'-[(4-Methylphenyl)imino]bisethanol | 3077-12-1<br>221-359-1<br>01-2120791684-40                 | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Chronic 3; H412                                                                                  | ≥ 0,25 - < 1   |
| 2,6-Di-tert-butyl-p-cresol             | 128-37-0<br>204-881-4<br>01-2119555270-46                  | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><br>M-Factor (Chronic aquatic toxicity): 1                                                                           | ≥ 0,1 - < 0,25 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Treat symptomatically.  
Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Get medical attention if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : No information available.

Hazardous combustion products : Carbon oxides  
Metal oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : No action shall be taken involving any personal risk or without suitable training.

## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

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Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage areas and containers : No special storage conditions required. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature : 2 - 8 °C

Further information on storage stability : Stable under normal conditions.

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.                            | Value type (Form of exposure) | Control parameters   | Basis       |
|---------------------|------------------------------------|-------------------------------|----------------------|-------------|
| methyl methacrylate | 80-62-6                            | TWA                           | 50 ppm               | 2009/161/EU |
| Further information | Indicative                         |                               |                      |             |
|                     |                                    | STEL                          | 100 ppm              | 2009/161/EU |
| Further information | Indicative                         |                               |                      |             |
|                     |                                    | VME                           | 50 ppm<br>205 mg/m3  | FR VLE      |
| Further information | Regulatory binding exposure limits |                               |                      |             |
|                     |                                    | VLCT (VLE)                    | 100 ppm<br>410 mg/m3 | FR VLE      |
| Further information | Regulatory binding exposure limits |                               |                      |             |
| Titanium dioxide    | 13463-67-7                         | VME                           | 10 mg/m3             | FR VLE      |

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|                            |                            |     |                    |        |
|----------------------------|----------------------------|-----|--------------------|--------|
|                            |                            |     | (Titanium)         |        |
| Further information        | Indicative exposure limits |     |                    |        |
| methacrylic acid           | 79-41-4                    | VME | 20 ppm<br>70 mg/m3 | FR VLE |
| Further information        | Indicative exposure limits |     |                    |        |
| 2,6-di-tert-butyl-p-cresol | 128-37-0                   | VME | 10 mg/m3           | FR VLE |
| Further information        | Indicative exposure limits |     |                    |        |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                                 | End Use      | Exposure routes | Potential health effects   | Value             |
|------------------------------------------------|--------------|-----------------|----------------------------|-------------------|
| Titanium dioxide                               | Workers      | Inhalation      | Long-term local effects    | 10 mg/m3          |
|                                                | Consumers    | Oral            | Long-term systemic effects | 700 mg/kg bw/day  |
| methacrylic acid                               | Workers      | Inhalation      | Long-term systemic effects | 29,6 mg/m3        |
|                                                | Workers      | Inhalation      | Long-term local effects    | 88 mg/m3          |
|                                                | Workers      | Dermal          | Long-term systemic effects | 4,25 mg/kg bw/day |
|                                                | Consumers    | Inhalation      | Long-term systemic effects | 6,3 mg/m3         |
|                                                | Consumers    | Inhalation      | Long-term local effects    | 6,55 mg/m3        |
|                                                | Consumers    | Dermal          | Long-term systemic effects | 2,55 mg/kg bw/day |
| Silica, amorphous, fumed, cryst.-free          | Workers      | Inhalation      | Long-term systemic effects | 4 mg/m3           |
| 2-[(2-methyl-1-oxoallyl)oxy]ethyl acetoacetate | Workers      | Inhalation      | Long-term systemic effects | 35 mg/m3          |
|                                                | Workers      | Inhalation      | Acute systemic effects     | 700 mg/m3         |
|                                                | Workers      | Inhalation      | Long-term local effects    | 35 mg/m3          |
|                                                | Workers      | Inhalation      | Acute local effects        | 700 mg/m3         |
|                                                | Workers      | Dermal          | Long-term systemic effects | 5 mg/kg           |
|                                                | Workers      | Dermal          | Acute systemic effects     | 100 mg/kg         |
|                                                | Workers      | Dermal          | Long-term local effects    | 0,125 mg/cm2      |
|                                                | Workers      | Dermal          | Acute local effects        | 2,5 mg/cm2        |
|                                                | Consumer use | Inhalation      | Long-term systemic effects | 17,5 mg/m3        |
|                                                | Consumer use | Inhalation      | Acute systemic effects     | 350 mg/m3         |

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|-----------------------------------------|--------------|------------|----------------------------|-------------------|
|                                         | Consumer use | Inhalation | Long-term local effects    | 17,5 mg/m3        |
|                                         | Consumer use | Inhalation | Acute local effects        | 350 mg/m3         |
|                                         | Consumer use | Dermal     | Long-term systemic effects | 2,5 mg/kg         |
|                                         | Consumer use | Dermal     | Acute systemic effects     | 50 mg/kg          |
|                                         | Consumer use | Dermal     | Long-term local effects    | 0,062 mg/cm2      |
|                                         | Consumer use | Dermal     | Acute local effects        | 1,25 mg/cm2       |
|                                         | Consumer use | Oral       | Long-term systemic effects | 2,5 mg/kg         |
|                                         | Consumer use | Oral       | Acute systemic effects     | 50 mg/kg          |
| 2,2'-[(4-Methylphenyl)imino]bis ethanol | Workers      | Inhalation | Long-term systemic effects | 3,29 mg/m3        |
|                                         | Workers      | Dermal     | Long-term systemic effects | 0,47 mg/kg bw/day |
|                                         | Consumers    | Inhalation | Long-term systemic effects | 0,58 mg/m3        |
|                                         | Consumers    | Dermal     | Long-term systemic effects | 0,17 mg/kg bw/day |
|                                         | Consumers    | Oral       | Long-term systemic effects | 0,16 mg/kg bw/day |
| 2,6-di-tert-butyl-p-cresol              | Workers      | Inhalation | Long-term systemic effects | 3,5 mg/m3         |
|                                         | Workers      | Dermal     | Long-term systemic effects | 0,5 mg/kg bw/day  |
|                                         | Consumers    | Inhalation | Long-term systemic effects | 0,86 mg/m3        |
|                                         | Consumers    | Dermal     | Long-term systemic effects | 0,25 mg/kg bw/day |
|                                         | Consumers    | Oral       | Long-term systemic effects | 0,25 mg/kg bw/day |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name   | Environmental Compartment | Value       |
|------------------|---------------------------|-------------|
| Titanium dioxide | Marine water              | 0,0184 mg/l |
| Remarks:         | Assessment Factors        |             |
|                  | Fresh water sediment      | 1000 mg/kg  |
|                  | Assessment Factors        |             |
|                  | Fresh water               | 0,184 mg/l  |
|                  | Assessment Factors        |             |
|                  | Marine sediment           | 100 mg/kg   |

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|                                                |                           |                               |
|------------------------------------------------|---------------------------|-------------------------------|
|                                                | Assessment Factors        |                               |
|                                                | Soil                      | 100 mg/kg                     |
|                                                | Assessment Factors        |                               |
|                                                | Sewage treatment plant    | 100 mg/l                      |
|                                                | Assessment Factors        |                               |
|                                                | Freshwater - intermittent | 0,193 mg/l                    |
|                                                | Assessment Factors        |                               |
| methacrylic acid                               | Fresh water               | 0,82 mg/l                     |
|                                                | Assessment Factors        |                               |
|                                                | Marine water              | 0,82 mg/l                     |
|                                                | Assessment Factors        |                               |
|                                                | Freshwater - intermittent | 0,82 mg/l                     |
|                                                | Assessment Factors        |                               |
|                                                | Sewage treatment plant    | 10 mg/l                       |
|                                                | Assessment Factors        |                               |
|                                                | Soil                      | 1,2 mg/kg                     |
|                                                | Equilibrium method        |                               |
| 2-[(2-methyl-1-oxoallyl)oxy]ethyl acetoacetate | Fresh water               | 0,069 mg/l                    |
|                                                | Marine water              | 0,007 mg/l                    |
|                                                | Freshwater - intermittent | 0,692 mg/l                    |
|                                                | Sewage treatment plant    | 32 mg/l                       |
|                                                | Fresh water sediment      | 0,462 mg/kg                   |
|                                                | Marine sediment           | 0,046 mg/kg                   |
| 2,2'-[(4-Methylphenyl)imino]bisethanol         | Fresh water               | 0,026 mg/l                    |
|                                                | Assessment Factors        |                               |
|                                                | Marine water              | 0,003 mg/l                    |
|                                                | Assessment Factors        |                               |
|                                                | Sewage treatment plant    | 10 mg/l                       |
|                                                | Assessment Factors        |                               |
|                                                | Fresh water sediment      | 0,121 mg/kg dry weight (d.w.) |
|                                                | Equilibrium method        |                               |
|                                                | Marine sediment           | 0,012 mg/kg dry weight (d.w.) |
|                                                | Equilibrium method        |                               |

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|                            |                        |                                 |
|----------------------------|------------------------|---------------------------------|
|                            | Soil                   | 0,009 mg/kg dry weight (d.w.)   |
|                            | Equilibrium method     |                                 |
| 2,6-di-tert-butyl-p-cresol | Fresh water            | 0,199 µg/l                      |
|                            | Assessment Factors     |                                 |
|                            | Marine water           | 0,02 µg/l                       |
|                            | Assessment Factors     |                                 |
|                            | Sewage treatment plant | 0,17 mg/l                       |
|                            | Assessment Factors     |                                 |
|                            | Fresh water sediment   | 0,0996 mg/kg dry weight (d.w.)  |
|                            | Equilibrium method     |                                 |
|                            | Marine sediment        | 0,00996 mg/kg dry weight (d.w.) |
|                            | Equilibrium method     |                                 |
|                            | Soil                   | 0,04769 mg/kg dry weight (d.w.) |
|                            | Equilibrium method     |                                 |
|                            | Oral                   | 8,33 mg/kg                      |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : butyl-rubber

Material

: Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time

: > 8 h

Material

: Nitrile rubber

Break through time

: 10 - 480 min

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

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Filter type : Combined particulates and organic vapour type (A-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                                                        |
|--------------------------------------------------|--------------------------------------------------------|
| Physical state                                   | : liquid                                               |
| Colour                                           | : white                                                |
| Odour                                            | : No data is available on the product itself.          |
| Odour Threshold                                  | : No data is available on the product itself.          |
| pH                                               | : substance/mixture is non-soluble (in water)          |
| Melting point/freezing point                     | : No data is available on the product itself.          |
| Boiling point                                    | : > 100 °C                                             |
| Flash point                                      | : 10 °C                                                |
| Evaporation rate                                 | : No data is available on the product itself.          |
| Flammability (solid, gas)                        | : No data is available on the product itself.          |
| Burning rate                                     | : No data is available on the product itself.          |
| Upper explosion limit / Upper flammability limit | : No data is available on the product itself.          |
| Lower explosion limit / Lower flammability limit | : No data is available on the product itself.          |
| Vapour pressure                                  | : No data is available on the product itself.          |
| Relative vapour density                          | : No data is available on the product itself.          |
| Relative density                                 | : No data is available on the product itself.          |
| Density                                          | : 1,07 g/cm <sup>3</sup><br>Method: Calculation method |
| Solubility(ies)                                  |                                                        |
| Water solubility                                 | : insoluble                                            |
| Solubility in other solvents                     | : No data is available on the product itself.          |
| Partition coefficient: n-octanol/water           | : No data is available on the product itself.          |
| Auto-ignition temperature                        | : > 400 °C                                             |
| Decomposition temperature                        | : > 200 °C                                             |

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Viscosity  
Viscosity, dynamic : 180 000 - 200 000 mPa.s

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide

## SECTION 11: Toxicological information

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

#### Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2 000 mg/kg  
Method: Calculation method

Acute inhalation toxicity - Product : Acute toxicity estimate : > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity - Product : Acute toxicity estimate : > 2 000 mg/kg  
Method: Calculation method

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Acute toxicity (other routes of administration) : No data available

### Skin corrosion/irritation

#### Components:

methyl methacrylate:

Species: Rabbit

Method: OPPTS 870.2500

Result: Skin irritation

Octadecyl methacrylate:

Result: Skin irritation

methacrylic acid:

Species: Rabbit

Assessment: Causes severe burns.

Method: OECD Test Guideline 404

Result: Extremely corrosive and destructive to tissue.

GLP: yes

Hexadecyl methacrylat:

Result: Skin irritation

2,2'-[(4-Methylphenyl)imino]bisethanol:

Species: Rabbit

Assessment: No skin irritation

Method: Other guidelines

Result: No skin irritation

GLP: no

2,6-di-tert-butyl-p-cresol:

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

### Serious eye damage/eye irritation

#### Components:

Octadecyl methacrylate:

Result: Eye irritation

methacrylic acid:

Species: Rabbit

Assessment: Risk of serious damage to eyes.

Method: Draize Test

Result: Irreversible effects on the eye

GLP: no

Hexadecyl methacrylat:

Result: Eye irritation

2,2'-[(4-Methylphenyl)imino]bisethanol:

Species: Rabbit

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Assessment: Risk of serious damage to eyes.  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.  
GLP: no

2,6-di-tert-butyl-p-cresol:  
Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

methyl methacrylate:  
Exposure routes: Skin  
Species: Mouse  
Assessment: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.

Octadecyl methacrylate:  
Exposure routes: Skin  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Does not cause skin sensitisation.

methacrylic acid:  
Test Type: Buehler Test  
Exposure routes: Skin  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

Hexadecyl methacrylate:  
Exposure routes: Skin  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Does not cause skin sensitisation.

2,2'-[(4-Methylphenyl)imino]bisethanol:  
Test Type: Local lymph node assay (LLNA)  
Species: Mouse  
Assessment: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

2,6-di-tert-butyl-p-cresol:  
Exposure routes: Skin  
Species: Humans  
Result: Does not cause skin sensitisation.

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Assessment: No data available

### Germ cell mutagenicity

#### Components:

methyl methacrylate:  
Genotoxicity in vitro

: Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Octadecyl methacrylate:  
Genotoxicity in vitro

: Concentration: .1 - 1200 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

: Concentration: 33 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

: Concentration: 14.5 - 2233 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

methacrylic acid:  
Genotoxicity in vitro

: Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Hexadecyl methacrylat:  
Genotoxicity in vitro

: Concentration: .1 - 1200 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

: Concentration: 33 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

: Concentration: 14.5 - 2233 µg/L  
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 473

Result: negative

2,2'-[(4-Methylphenyl)imino]bisethanol:

Genotoxicity in vitro

- : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: no
- : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.
- : Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro

- : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative
- : Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

### Components:

Octadecyl methacrylate:

Genotoxicity in vivo

- : Application Route: Oral  
Exposure time: 72 h  
Dose: 5000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

methacrylic acid:

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Genotoxicity in vivo : Test Type: in vivo assay  
Test species: Rat (male)  
Cell type: Somatic  
Application Route: Inhalation  
Exposure time: 2 h  
Dose: 0.4, 1.6, 2.8 and 4 mg/L  
Method: OECD Test Guideline 475  
Result: Not classified due to inconclusive data.  
GLP: no

Test Type: dominant lethal test  
Test species: Mouse (male)  
Application Route: Inhalation  
Exposure time: 6 h  
Dose: 0.405, 4.05 and 36.45 mg/L  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

Hexadecyl methacrylat:  
Genotoxicity in vivo : Application Route: Oral  
Exposure time: 72 h  
Dose: 5000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

2,6-di-tert-butyl-p-cresol:  
Genotoxicity in vivo : Application Route: Intraperitoneal injection  
Dose: 75 mg/kg  
Result: negative

Application Route: Oral  
Exposure time: 9 Months  
Dose: ca 750 mg/kg  
Result: negative

Germ cell mutagenicity-  
Assessment : No data available

### Carcinogenicity

#### Components:

methyl methacrylate:  
Species: Rat, male and female  
Application Route: Oral  
Exposure time: 2 Years  
Dose: 6, 60, 2000 ppm  
Frequency of Treatment: once daily  
No observed adverse effect level: 90,3 mg/kg bw/day  
Result: negative

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methacrylic acid:

Species: Rat, male and female

Application Route: inhalation (vapour)

Exposure time: 102 weeks

Frequency of Treatment: 5 days/week

No observed adverse effect level:  $\geq$  2,05 mg/kg body weight

Method: OECD Test Guideline 451

Species: Mouse, male and female

Application Route: inhalation (vapour)

Exposure time: 102 weeks

Dose: ca. 2.05 and 4.1 mg/L

Frequency of Treatment: 5 days/week

Lowest observed adverse effect level: ca. 2,05 mg/l

Method: OECD Test Guideline 451

2,6-di-tert-butyl-p-cresol:

Species: Rat, male and female

Application Route: Oral

Result: negative

Carcinogenicity -  
Assessment : No data available

### Reproductive toxicity

#### Components:

Octadecyl methacrylate:

Effects on fertility

: Species: Rat, male and female  
Application Route: Oral  
Dose:  $\geq$  1000 milligram per kilogram  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 422  
Result: negative

Species: Rat, male and female  
Application Route: Oral  
Dose: 400 milligram per kilogram  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 416  
Result: negative

methacrylic acid:

Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 150, 450 mg/kg/day  
General Toxicity - Parent: No observed adverse effect level:  
50 mg/kg body weight  
Fertility: No observed adverse effect level F1: 400 mg/kg body  
weight  
Symptoms: Reduced body weight  
Method: OECD Test Guideline 416  
GLP: yes

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Hexadecyl methacrylat:

Species: Rat, male and female  
Application Route: Oral  
Dose:  $\geq 1000$  milligram per kilogram  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 422  
Result: negative

Species: Rat, male and female  
Application Route: Oral  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 416  
Result: negative

2,6-di-tert-butyl-p-cresol:

Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25/100/500 mg/kg bw/day  
General Toxicity - Parent: No observed adverse effect level:  
100 mg/kg body weight  
General Toxicity F1: No observed adverse effect level: 25  
mg/kg body weight  
Result: negative

### **Components:**

methyl methacrylate:

Effects on foetal  
development

: Species: Rat  
Application Route: Inhalation  
Dose: 99, 304, 1178 ppm  
Teratogenicity: No observed adverse effect concentration F1:  
8 300 mg/m<sup>3</sup>  
Embryo-foetal toxicity: No observed adverse effect  
concentration F1: 8 300 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Octadecyl methacrylate:

Species: Rat, male and female  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 1  
000 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No teratogenic effects

Species: Rat, female  
Application Route: Inhalation  
General Toxicity Maternal: No observed adverse effect level:  
100 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

methacrylic acid:

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Test Type: Pre-natal  
Species: Rat, female  
Application Route: Inhalation  
Dose: 0, 50, 100, 200 or 300 ppm  
Duration of Single Treatment: 14 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: No observed adverse effect level: 200 ppm  
Developmental Toxicity: No observed adverse effect level:  $\geq$  300 ppm  
Embryo-foetal toxicity: No observed adverse effect concentration F1: 300 ppm  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.

Test Type: Pre-natal  
Species: Rabbit, male and female  
Application Route: Oral  
Dose: 50, 150, 450 milligram per kilogram  
Duration of Single Treatment: 23 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: No observed adverse effect level: 50 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level F1: 450 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.

Hexadecyl methacrylat:

Species: Rat, male and female  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 1000 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No teratogenic effects

Species: Rat, female  
Application Route: Inhalation  
General Toxicity Maternal: No observed adverse effect level: 100 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

2,2'-[(4-Methylphenyl)imino]bisethanol:

Test Type: Pre-natal  
Species: Rat, females  
Application Route: Oral  
Dose: 60/200/600 milligram per kilogram  
Duration of Single Treatment: 15 d  
General Toxicity Maternal: No observed adverse effect level: 200 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level:  $\geq$  600 mg/kg body weight  
Method: OECD Test Guideline 414

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GLP: yes

Remarks: Information given is based on data obtained from similar substances.

2,6-di-tert-butyl-p-cresol:

Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Duration of Single Treatment: 7 d  
General Toxicity Maternal: No observed adverse effect level:  
240 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level:  
800 mg/kg body weight  
Target Organs: spleen, Kidney

Reproductive toxicity - : No data available  
Assessment

### STOT - single exposure

#### Components:

methyl methacrylate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

Octadecyl methacrylate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

methacrylic acid:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Hexadecyl methacrylat:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

methyl methacrylate:  
Species: Rat, male and female

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NOAEL: 124,1 mg/kg  
Application Route: oral (drinking water)  
Exposure time: 2 years Number of exposures: daily  
Dose: 6, 60, 2000 ppm

Octadecyl methacrylate:  
Species: Rat, male and female  
NOAEL: 1000 mg/kg  
Application Route: Ingestion  
Number of exposures: 7 d  
Method: Subchronic toxicity

Species: Rat, male and female  
NOAEL: 120 mg/kg  
Application Route: Ingestion  
Exposure time: 2 160 h Number of exposures: 7 d  
Method: Subchronic toxicity

methacrylic acid:  
Species: Rat, male and female  
NOEC: 352 - 1232  
Application Route: inhalation (vapour)  
Test atmosphere: vapour  
Exposure time: 90 d Number of exposures: 6 h  
Dose: 70/352/1232 mg/m<sup>3</sup>  
Subsequent observation period: 5 days/week  
Method: OECD Test Guideline 413  
GLP: yes

Hexadecyl methacrylate:  
Species: Rat, male and female  
NOAEL: 1000 mg/kg  
Application Route: Ingestion  
Number of exposures: 7 d  
Method: Subchronic toxicity

Species: Rat, male and female  
NOAEL: 120 mg/kg  
Application Route: Ingestion  
Exposure time: 2 160 h Number of exposures: 7 d  
Method: Subchronic toxicity

2,2'-[(4-Methylphenyl)imino]bisethanol:  
Species: Rat, male and female  
NOAEL: 100 mg/kg  
Application Route: Oral  
Exposure time: 28 d Number of exposures: daily  
Dose: 100/300/600/1000 mg/kg bw/day  
Method: OECD Test Guideline 407  
GLP: yes

Remarks: Information given is based on data obtained from similar substances.

2,6-di-tert-butyl-p-cresol:  
Species: Pig, male and female  
NOAEL: >= 61 mg/kg

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Application Route: oral (feed)  
Exposure time: daily Method: Chronic toxicity

Repeated dose toxicity - : No data available  
Assessment

### Aspiration toxicity

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : 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

### Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

Ingestion: No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

methyle methacrylate:

Toxicity to fish : LC50 : 191 mg/l  
Exposure time: 96 h  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: Fish Early-life Stage Toxicity Test

Toxicity to daphnia and other aquatic invertebrates : EC50 : 69 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 : > 110 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 37 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211

methacrylic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water  
Method: Fish Acute Toxicity Test  
GLP: yes  
Remarks: Toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

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NOEC (Selenastrum capricornutum (green algae)): 8,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 270 mg/l  
Exposure time: 16,5 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: DIN 38 412 Part 8  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 35 d  
Species: Brachydanio rerio (zebrafish)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 53 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 211  
GLP: yes

2,2'-[(4-Methylphenyl)imino]bisethanol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 48 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

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Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC50 (Fish): 0,199 mg/l  
Exposure time: 96 h  
Test substance: Fresh water  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
  
NOEC (Pseudokirchneriella subcapitata (green algae)): 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test

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|                                                                        |                                                                                                                                                                |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | Test substance: Fresh water<br>Method: OECD Test Guideline 201                                                                                                 |
| Toxicity to microorganisms                                             | : ErC50 (activated sludge): 1,7 mg/l<br>Exposure time: 24 h<br>Test Type: static test                                                                          |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: 0,053 mg/l<br>Exposure time: 30 d<br>Species: Oryzias latipes (Orange-red killifish)<br>Test substance: Fresh water<br>Method: OECD Test Guideline 210 |
|                                                                        | NOEC: >= 23,8 mg/l<br>Exposure time: 70 d<br>Species: Fish<br>Test substance: Fresh water                                                                      |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : EC50: 0,096 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test substance: Fresh water<br>Method: OECD Test Guideline 211             |
|                                                                        | NOEC: 0,069 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test substance: Fresh water<br>Method: OECD Test Guideline 211               |
| M-Factor (Chronic aquatic toxicity)                                    | : 1                                                                                                                                                            |

### 12.2 Persistence and degradability

#### Components:

methyl methacrylate:

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Biodegradability | : Result: Readily biodegradable.<br>Biodegradation: > 60 %<br>Exposure time: 28 d |
|------------------|-----------------------------------------------------------------------------------|

methacrylic acid:

|                  |                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Test Type: aerobic<br>Inoculum: activated sludge<br>Concentration: 3 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 86 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301D<br>GLP: yes |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

2,2'-(4-Methylphenyl)imino]bisethanol:

|                  |                                                                                           |
|------------------|-------------------------------------------------------------------------------------------|
| Biodegradability | : Test Type: aerobic<br>Inoculum: activated sludge, non-adapted<br>Concentration: 18 mg/l |
|------------------|-------------------------------------------------------------------------------------------|

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Result: Not biodegradable  
Biodegradation: 1,5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes  
Remarks: Based on data from similar materials

2,6-di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

### 12.3 Bioaccumulative potential

#### Components:

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-octanol/water : log Pow: 1,38

methacrylic acid:

Partition coefficient: n-octanol/water : log Pow: 0,93 (22 °C)  
pH: 2,2

Hexadecyl methacrylat:

Partition coefficient: n-octanol/water : log Pow: 8,64  
Method: QSAR  
GLP: no

2,2'-[(4-Methylphenyl)imino]bisethanol:

Partition coefficient: n-octanol/water : log Pow: 2 (35 °C)  
pH: 7  
Method: OECD Test Guideline 117

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 330 - 1 800  
Method: flow-through test

Partition coefficient: n-octanol/water : log Pow: 5,2

### 12.4 Mobility in soil

#### Components:

2,6-di-tert-butyl-p-cresol:

Distribution among environmental compartments : Koc: 8183

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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### 12.6 Endocrine disrupting properties

**Product:**

Assessment : 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

### 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|      |           |
|------|-----------|
| ADN  | : UN 1133 |
| ADR  | : UN 1133 |
| RID  | : UN 1133 |
| IMDG | : UN 1133 |
| IATA | : UN 1133 |

### 14.2 UN proper shipping name

|      |             |
|------|-------------|
| ADN  | : ADHESIVES |
| ADR  | : ADHESIVES |
| RID  | : ADHESIVES |
| IMDG | : ADHESIVES |
| IATA | : Adhesives |

### 14.3 Transport hazard class(es)

|      |     |
|------|-----|
| ADN  | : 3 |
| ADR  | : 3 |
| RID  | : 3 |
| IMDG | : 3 |
| IATA | : 3 |

### 14.4 Packing group

ADN

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Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

### ADR

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

### RID

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
P5c FLAMMABLE LIQUIDS

Occupational Illnesses (R-461-3, France) : 65, 82, 36, 25

Installations classified for the protection of the environment (Environment Code R511-9) : 4331

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

DSL : This product contains one or several components listed in the Canadian NDSL.

AIIC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

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TSCA : All substances listed as active on the TSCA inventory

### Inventories

AICS (Australia), AIIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOIC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                         |
|------|---------------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.                   |
| H302 | : Harmful if swallowed.                                 |
| H311 | : Toxic in contact with skin.                           |
| H314 | : Causes severe skin burns and eye damage.              |
| H315 | : Causes skin irritation.                               |
| H317 | : May cause an allergic skin reaction.                  |
| H318 | : Causes serious eye damage.                            |
| H319 | : Causes serious eye irritation.                        |
| H332 | : Harmful if inhaled.                                   |
| H335 | : May cause respiratory irritation.                     |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H412 | : Harmful to aquatic life with long lasting effects.    |

### Full text of other abbreviations

|                     |                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.          | : Acute toxicity                                                                                                                                                                                                   |
| Aquatic Acute       | : Short-term (acute) aquatic hazard                                                                                                                                                                                |
| Aquatic Chronic     | : Chronic aquatic toxicity                                                                                                                                                                                         |
| Eye Dam.            | : Serious eye damage                                                                                                                                                                                               |
| Eye Irrit.          | : Eye irritation                                                                                                                                                                                                   |
| Flam. Liq.          | : Flammable liquids                                                                                                                                                                                                |
| Skin Corr.          | : Skin corrosion                                                                                                                                                                                                   |
| Skin Irrit.         | : Skin irritation                                                                                                                                                                                                  |
| Skin Sens.          | : Skin sensitisation                                                                                                                                                                                               |
| STOT SE             | : Specific target organ toxicity - single exposure                                                                                                                                                                 |
| 2009/161/EU         | : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC |
| FR VLE              | : France. Occupational Exposure Limits (INRS)                                                                                                                                                                      |
| 2009/161/EU / TWA   | : Limit Value - eight hours                                                                                                                                                                                        |
| 2009/161/EU / STEL  | : Short term exposure limit                                                                                                                                                                                        |
| FR VLE / VME        | : Time Weighted Average                                                                                                                                                                                            |
| FR VLE / VLCT (VLE) | : Short Term Exposure Limit                                                                                                                                                                                        |

### Further information

Classification of the mixture:

Classification procedure:

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|               |      |                                     |
|---------------|------|-------------------------------------|
| Flam. Liq. 2  | H225 | Based on product data or assessment |
| Skin Irrit. 2 | H315 | Calculation method                  |
| Eye Irrit. 2  | H319 | Calculation method                  |
| Skin Sens. 1  | H317 | Calculation method                  |
| STOT SE 3     | H335 | Calculation method                  |

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