

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2053-05 A

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 10.11.2020  |
| 1.2     | 10.06.2022     | 400000010923 | Date of first issue: 10.11.2020 |

Print Date 16.01.2024

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

#### 1.1 Product identifier

Trade name : ARALDITE® 2053-05 A

Unique Formula Identifier (UFI) : YSG5-U0DP-S00N-HGWN

#### 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.                            |
| Serious eye damage, Category 1                                                   | H318: Causes serious eye damage.                         |
| 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.                  |
| Long-term (chronic) aquatic hazard, Category 3                                   | H412: Harmful to aquatic life with long lasting effects. |

### 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.               |
|                   |   | H318 | Causes serious eye damage.                         |
|                   |   | H335 | May cause respiratory irritation.                  |
|                   |   | H412 | Harmful to aquatic life with long lasting effects. |

|                          |   |                           |                                                                                                                                                                            |
|--------------------------|---|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                           |
|                          |   | P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.                                                                          |
|                          |   | <b>Response:</b>          |                                                                                                                                                                            |
|                          |   | P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |
|                          |   | P370 + P378               | In case of fire: Use dry sand, dry chemical                                                                                                                                |
|                          |   |                           |                                                                                                                                                                            |
|                          |   |                           |                                                                                                                                                                            |

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or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

methyl methacrylate  
methacrylic acid  
octadecyl methacrylate  
2,2'-[(4-methylphenyl)imino]bisethanol

### 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

Chemical nature : Adhesives

#### 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)                                                                                                                                                                                      | >= 50 -<br>< 70          |
| 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<br>limit<br>STOT SE 3; H335<br>>= 1 %<br>Skin Corr. 1A; H314<br>>= 10 %<br>Skin Irrit. 2; H315<br>1 - < 10 % | >= 5 - <<br>10           |

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|                                                                                     |                                                             |                                                                                                                                                          |                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                     |                                                             | Eye Dam. 1; H318<br>≥ 3 %<br>Eye Irrit. 2A; H319<br>1 - < 3 %                                                                                            |                |
| 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  |
| hexadecyl methacrylate                                                              | 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 - <<br>10  |
| zinc oxide                                                                          | 1314-13-2<br>215-222-5<br>030-013-00-7<br>01-2119463881-32  | Aquatic Acute 1; H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 1          | ≥ 1 - <<br>2,5 |
| 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;<br>H412                                                               | ≥ 1 - <<br>2,5 |
| ε-Caprolactone, oligomers,<br>esters with 2-hydroxyethyl<br>methacrylate, phosphate | 2548699-72-3<br>500-310-0<br>-                              | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)                                                                     | ≥ 1 - <<br>10  |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.  
Get medical attention if symptoms occur.

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- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.  
No action shall be taken involving any personal risk or without suitable training.  
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### 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 : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

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

|                                      |   |                                                                           |
|--------------------------------------|---|---------------------------------------------------------------------------|
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products        | : | Carbon oxides                                                             |

### 5.3 Advice for firefighters

|                                               |   |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                                                                                                                                                                        |
| Specific extinguishing methods                | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                                                                                                                                                                       |
| Further information                           | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |

## SECTION 6: Accidental release measures

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

|                      |   |                                                                                                                                                                                                                                                                                                                 |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Refer to protective measures listed in sections 7 and 8.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

|                           |   |                                                                                                                                                                                         |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                         |   |                                                                                                                                                                                                                                                                                       |
|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : | Neutralize with chalk, alkali solution or ammonia.<br>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |
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### 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 : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.
- Advice on common storage : Keep away from strong bases.
- Recommended storage temperature : 2 - 8 °C
- Further information on storage stability : Stable under normal conditions.

### 7.3 Specific end use(s)

- Specific use(s) : No data available

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### 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 |                               |                      |             |
| methacrylic acid    | 79-41-4                            | VME                           | 20 ppm<br>70 mg/m3   | FR VLE      |
| Further information | Indicative exposure limits         |                               |                      |             |
| calcium carbonate   | 471-34-1                           | VME                           | 10 mg/m3             | FR VLE      |
| Further information | Indicative exposure limits         |                               |                      |             |
| zinc oxide          | 1314-13-2                          | VME (Fumes)                   | 5 mg/m3              | FR VLE      |
| Further information | Indicative exposure limits         |                               |                      |             |
|                     |                                    | VME (Dust)                    | 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             |
|----------------------------------------|-----------|-----------------|----------------------------|-------------------|
| 2,2'-[(4-methylphenyl)imino]bisethanol | 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 |
| calcium carbonate                      | Workers   | Inhalation      | Long-term local effects    | 6,36 mg/m3        |
|                                        | Consumers | Inhalation      | Long-term local effects    | 1,06 mg/m3        |
| 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         | 6,3 mg/m3         |

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|                    |           |            | effects                    |                   |
|--------------------|-----------|------------|----------------------------|-------------------|
|                    | Consumers | Inhalation | Long-term local effects    | 6,55 mg/m3        |
|                    | Consumers | Dermal     | Long-term systemic effects | 2,55 mg/kg bw/day |
| calcium molybdate  | Workers   | Inhalation | Long-term systemic effects | 11,17 mg/m3       |
|                    | Workers   | Inhalation | Systemic effects           | 11,17 mg/m3       |
|                    | Consumers | Inhalation | Long-term systemic effects | 3,33 mg/m3        |
|                    | Consumers | Inhalation | Systemic effects           | 3,33 mg/m3        |
|                    | Consumers | Oral       | Long-term systemic effects | 4,85 mg/kg        |
|                    | Consumers | Oral       | Systemic effects           |                   |
| Silicon, amorphous | Workers   | Inhalation | Long-term systemic effects | 4 mg/m3           |
| zinc oxide         | Workers   | Dermal     | Long-term systemic effects | 83 mg/kg          |
|                    | Workers   | Inhalation | Long-term systemic effects | 5 mg/m3           |
|                    | Consumers | Dermal     | Long-term systemic effects | 83 mg/kg          |
|                    | Consumers | Inhalation | Long-term systemic effects | 2,5 mg/m3         |
|                    | Consumers | Oral       | Long-term systemic effects | 0,83 mg/kg        |
|                    | Workers   | Inhalation | Long-term local effects    | 0,5 mg/m3         |

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

| Substance name                         | Environmental Compartment  | Value                         |
|----------------------------------------|----------------------------|-------------------------------|
| 2,2'-[(4-methylphenyl)imino]bisethanol | Fresh water                | 0,026 mg/l                    |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Marine water               | 0,003 mg/l                    |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Sewage treatment plant     | 10 mg/l                       |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Fresh water sediment       | 0,121 mg/kg dry weight (d.w.) |
|                                        | Remarks:Equilibrium method |                               |
|                                        | Marine sediment            | 0,012 mg/kg dry weight (d.w.) |
|                                        | Remarks:Equilibrium method |                               |
|                                        | Soil                       | 0,009 mg/kg dry weight (d.w.) |
|                                        | Remarks:Equilibrium method |                               |
| methacrylic acid                       | Fresh water                | 0,82 mg/l                     |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Marine water               | 0,82 mg/l                     |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Freshwater - intermittent  | 0,82 mg/l                     |
|                                        | Remarks:Assessment Factors |                               |
|                                        | Sewage treatment plant     | 10 mg/l                       |

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|-------------------|----------------------------|-------------------------------|
|                   | Remarks:Assessment Factors |                               |
|                   | Soil                       | 1,2 mg/kg                     |
|                   | Remarks:Equilibrium method |                               |
| calcium molybdate | Fresh water                | 12,7 mg/l                     |
|                   | Marine water               | 1,91 mg/l                     |
|                   | Sewage treatment plant     | 21,7 mg/l                     |
|                   | Fresh water sediment       | 22600 mg/kg                   |
|                   | Marine sediment            | 1984 mg/kg                    |
|                   | Soil                       | 39 mg/kg                      |
| zinc oxide        | Fresh water                | 20,6 µg/l                     |
|                   | Marine water               | 6,1 µg/l                      |
|                   | Sewage treatment plant     | 100 µg/l                      |
|                   | Remarks:Assessment Factors |                               |
|                   | Fresh water sediment       | 117,8 mg/kg dry weight (d.w.) |
|                   | Marine sediment            | 56,5 mg/kg dry weight (d.w.)  |
|                   | Remarks:Equilibrium method |                               |
|                   | Soil                       | 35,6 mg/kg dry weight (d.w.)  |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

#### 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 : 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).  
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

Respiratory protection : Ensure adequate ventilation.  
Suitable respiratory equipment:

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Respirator with a half face mask  
Recommended Filter type:  
Combined particulates and organic vapour type  
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type : Filter type A-P2 (organic vapours, particles)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                                               |
|--------------------------------------------------|-----------------------------------------------|
| Physical state                                   | : paste                                       |
| Colour                                           | : beige                                       |
| Odour                                            | : acrylic-like                                |
| Odour Threshold                                  | : No data is available on the product itself. |
| pH                                               | : 4<br>Concentration: 500 g/l                 |
| Melting point/freezing point                     | : No data is available on the product itself. |
| Boiling point                                    | : No data is available on the product itself. |
| Flash point                                      | : 10 °C<br>Method: estimated                  |
| Flammability (solid, gas)                        | : 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                                          | : 1,03 g/cm <sup>3</sup> (25 °C)              |
| Solubility(ies)                                  |                                               |
| Water solubility                                 | : insoluble, immiscible                       |
| 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. |

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Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : No data is available on the product itself.

Viscosity  
Viscosity, dynamic : 32 200 mPa.s (25 °C)

### 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 : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

### 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

##### Product:

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

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

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

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### Components:

#### **methyl methacrylate:**

Acute oral toxicity : LD50 (Rat): 7 900 - 9 400 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 29,8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Directive 67/548/EEC, Annex V, B.2.

Acute dermal toxicity : LD50 (Rabbit, male): > 5 000 mg/kg  
Method: OECD Test Guideline 402

#### **methacrylic acid:**

Acute oral toxicity : LD50 (Rat, male): 1 320 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 7,1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 500 - 1 000 mg/kg  
GLP: no  
Assessment: The component/mixture is toxic after single contact with skin.

#### **octadecyl methacrylate:**

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3 000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **hexadecyl methacrylate:**

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3 000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **zinc oxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Method: OECD Test Guideline 401

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Acute inhalation toxicity : LC50 (Rat, male and female): > 5,7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **2,2'-[(4-methylphenyl)imino]bisethanol:**

Acute oral toxicity : LD50 (Rat, male and female): 959 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Components:**

##### **methyl methacrylate:**

Species : Rabbit  
Method : OPPTS 870.2500  
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

##### **octadecyl methacrylate:**

Result : Skin irritation

##### **hexadecyl methacrylate:**

Result : Skin irritation

##### **zinc oxide:**

Species : Rabbit  
Assessment : No skin irritation

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Method : OECD Test Guideline 404  
Result : No skin irritation

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

Species : Rabbit  
Assessment : No skin irritation  
Method : Other guidelines  
Result : No skin irritation  
GLP : no

### ε-Caprolactone, oligomers, esters with 2-hydroxyethyl methacrylate, phosphate:

Assessment : Irritating to skin.

### Serious eye damage/eye irritation

#### Components:

#### methacrylic acid:

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : Draize Test  
Result : Irreversible effects on the eye  
GLP : no

#### octadecyl methacrylate:

Result : Eye irritation

#### hexadecyl methacrylate:

Result : Eye irritation

#### zinc oxide:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

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

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

### ε-Caprolactone, oligomers, esters with 2-hydroxyethyl methacrylate, phosphate:

Assessment : Irritating to eyes.

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### 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. |

##### **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. |

##### **octadecyl methacrylate:**

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

##### **hexadecyl methacrylate:**

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

##### **zinc oxide:**

|                 |                                      |
|-----------------|--------------------------------------|
| Exposure routes | : Skin                               |
| Species         | : Guinea pig                         |
| Method          | : OECD Test Guideline 406            |
| 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. |
|---------|------------------------------------------------------------------------|

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### 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

##### **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

Genotoxicity in vivo : Test Type: in vivo assay  
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  
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

##### **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 µg/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

Genotoxicity in vivo : Application Route: Oral  
Exposure time: 72 h

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Dose: 5000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### hexadecyl 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 µg/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

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

### zinc oxide:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
GLP: yes

Test Type: Micronucleus test  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Dose: 15, 30 and 60 mg/kg bw  
Method: OECD Test Guideline 474  
Result: negative

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

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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.

### Carcinogenicity

#### Components:

##### **methyle methacrylate:**

|                        |                        |
|------------------------|------------------------|
| Species                | : Rat, male and female |
| Application Route      | : Oral                 |
| Exposure time          | : 2 Years              |
| Dose                   | : 6, 60, 2000 ppm      |
| Frequency of Treatment | : once daily           |
| NOAEL                  | : 90,3 mg/kg bw/day    |
| Result                 | : negative             |

##### **methacrylic acid:**

|                        |                             |
|------------------------|-----------------------------|
| Species                | : Rat, male and female      |
| Application Route      | : inhalation (vapour)       |
| Exposure time          | : 102 weeks                 |
| Frequency of Treatment | : 5 days/week               |
| NOAEL                  | : >= 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             |
| LOAEL                  | : ca. 2,05 mg/l           |
| Method                 | : OECD Test Guideline 451 |

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### zinc oxide:

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 1 year  
Dose : 1000 and 5000 ppm Zinc  
Frequency of Treatment : daily  
NOAEL : > 22 000 mg/kg body weight  
Remarks : Information given is based on data obtained from similar substances.

### Reproductive toxicity

#### Components:

#### **methyl methacrylate:**

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

#### **methacrylic acid:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 150, 450 mg/kg/day  
General Toxicity - Parent: NOAEL: 50 mg/kg body weight  
Fertility: NOAEL F1: 400 mg/kg body weight  
Symptoms: Reduced body weight  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development

: 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: NOAEL: 200 ppm  
Developmental Toxicity: NOAEL: >= 300 ppm  
Embryo-foetal toxicity: NOAEC 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: NOAEL: 50 mg/kg body weight

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Developmental Toxicity: NOAEL F1: 450 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.

### 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

Effects on foetal development

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

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

### hexadecyl 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  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development

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

Species: Rat, female  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL: 100 ppm

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Method: OECD Test Guideline 414

Result: No teratogenic effects

### zinc oxide:

Effects on fertility

: Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 7.5/15/30 mg/kg bw/day  
General Toxicity - Parent: LOAEL: 7,5 mg/kg body weight  
General Toxicity F1: NOAEL: 15 mg/kg body weight  
Method: OECD Test Guideline 416  
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development

: Test Type: Pre-natal  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Dose: 0.3/1.5/7.5 mg/m<sup>3</sup>  
Duration of Single Treatment: 6 h  
General Toxicity Maternal: NOAEC: 1,5 mg/m<sup>3</sup>  
Developmental Toxicity: NOAEC: 7,5 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

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

Effects on foetal development

: 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: NOAEL: 200 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 600 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### STOT - single exposure

#### Components:

#### **methyl 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.

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### octadecyl methacrylate:

|                 |                                     |
|-----------------|-------------------------------------|
| Exposure routes | : Inhalation                        |
| Target Organs   | : Respiratory Tract                 |
| Assessment      | : May cause respiratory irritation. |

### hexadecyl methacrylate:

|                 |                                     |
|-----------------|-------------------------------------|
| Exposure routes | : Inhalation                        |
| Target Organs   | : Respiratory Tract                 |
| Assessment      | : May cause respiratory irritation. |

### ε-Caprolactone, oligomers, esters with 2-hydroxyethyl methacrylate, phosphate:

|                 |                                     |
|-----------------|-------------------------------------|
| Exposure routes | : Inhalation                        |
| Target Organs   | : Respiratory system                |
| Assessment      | : May cause respiratory irritation. |

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

#### methyl methacrylate:

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

#### methacrylic acid:

|                               |                                 |
|-------------------------------|---------------------------------|
| Species                       | : Rat, male and female          |
| NOEC                          | : 352 - 1232 mg/m <sup>3</sup>  |
| 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                           |

#### 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            |

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Application Route : Ingestion  
Exposure time : 2 160 h  
Number of exposures : 7 d  
Method : Subchronic toxicity

### 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

### zinc oxide:

Species : Mouse, male and female  
NOEL : 3000 ppm  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Number of exposures : 7 d  
Method : Subchronic toxicity  
Remarks : Information given is based on data obtained from similar substances.

Species : Rat, male  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 13 weeks 6 h  
Number of exposures : 5 days/week  
Dose : 0.3, 1.5 and 4.5 mg/m<sup>3</sup>  
Method : OECD Test Guideline 413  
GLP : yes

Species : Rat, male and female  
LOAEL : 75 mg/kg  
Application Route : Dermal  
Exposure time : 28 days 6 h  
Number of exposures : 5 days/week  
Dose : 0, 75, 180, and 360 mg/kg bw/d

### 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

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

### 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

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **methyl methacrylate:**

|                                                                        |   |                                                                                                                                                                                                           |
|------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 : 191 mg/l<br>Exposure time: 96 h<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Method: Fish Early-life Stage Toxicity Test |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 : 69 mg/l<br>Exposure time: 48 h                                                                                                                                                                     |
| Toxicity to algae/aquatic plants                                       | : | EC50 : > 110 mg/l<br>Exposure time: 72 h                                                                                                                                                                  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 37 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)                                                                                                                               |

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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
- 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

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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

### zinc oxide:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### 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.

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

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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.

### 12.2 Persistence and degradability

#### Components:

##### **methyl methacrylate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d

##### **methacrylic acid:**

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

##### **2,2'-[(4-methylphenyl)imino]bisethanol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 18 mg/l  
Result: Not biodegradable  
Biodegradation: 1,5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes  
Remarks: Based on data from similar materials

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### 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 methacrylate:**

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

### 12.4 Mobility in soil

No data available

### 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.

### 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

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

|                        |                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : Dispose of contents and container in accordance with all local, regional, national and international regulations.<br>Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container. |
| Contaminated packaging | : Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum.                                                                                    |

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

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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.

## 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 : Not applicable

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(Annex XIV)

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 that are not on the Canadian DSL nor NDSL.

AIIC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Notified. Allowed to be imported / manufactured only by the notifiers. Please contact your Huntsman sales representative for more information.

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

TSCA : On or in compliance with the active portion of the TSCA inventory

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### Inventories

AICS (Australia), AIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (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     | : Long-term (chronic) aquatic hazard                                                                                                                                                                               |
| 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:

|               |      |
|---------------|------|
| Flam. Liq. 2  | H225 |
| Skin Irrit. 2 | H315 |

#### Classification procedure:

Based on product data or assessment  
Calculation method

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|                   |      |                    |
|-------------------|------|--------------------|
| Eye Dam. 1        | H318 | Calculation method |
| Skin Sens. 1      | H317 | Calculation method |
| STOT SE 3         | H335 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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