

Version: 3.1

Product number: 577573

Revision Date: 21.12.2023

Print Date: 22.12.2023

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product number                      577573  
Product name                        AZ 1518 Photoresist

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

Use of the Sub-                      : Materials for use in technical applications  
stance/Mixture

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

Company                              Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0  
Responsible Department        \* e-mail: ELECTRONICS\_SDS@merckgroup.com

**1.4 Emergency telephone number**

+49 6151 722440

CHEMTREC International Emergency Telephone Number +1 703-741-  
5970 [CCN 842835]

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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 3                      H226: Flammable liquid and vapour.

Specific target organ toxicity - single ex-                      H336: May cause drowsiness or dizziness.  
posure, Category 3, Central nervous  
system

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms                      :



Signal word                              : Warning

Hazard statements                      : H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

Precautionary statements                      : **Prevention:**  
P210 Keep away from heat.

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#### Hazardous components which must be listed on the label:

2-methoxy-1-methylethyl acetate

#### Additional Labelling

EUH208 Contains formaldehyde. 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.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture of organic compounds

#### Components

| Chemical name                                                                                              | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number          | Classification                                                                                                                  | Concentration<br>(% w/w) |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2-methoxy-1-methylethyl acetate                                                                            | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29-xxxx | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)                                                               | >= 50 - <= 100           |
| 1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone | 68510-93-0<br>270-931-7<br>01-2120753804-50-xxxx               | Flam. Sol. 2; H228<br>Self-react. D; H242<br>Skin Irrit. 2; H315<br>Aquatic Chronic 3; H412                                     | >= 2,5 - < 10            |
| Cresol                                                                                                     | 1319-77-3<br>215-293-2<br>604-004-00-9                         | Acute Tox. 3; H301<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412                  | >= 0,1 - < 0,25          |
| formaldehyde                                                                                               | 50-00-0<br>200-001-8<br>605-001-00-5<br>01-2119488953-20-XXXX  | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317 | < 0,1                    |

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|  |  |  |                                                                                                                                                                                                           |  |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |  | Muta. 2; H341<br>Carc. 1B; H350                                                                                                                                                                           |  |
|  |  |  | specific concentration<br>limit<br>Skin Corr. 1B; H314<br>>= 25 %<br>Skin Irrit. 2; H315<br>5 - < 25 %<br>Eye Irrit. 2; H319<br>5 - < 25 %<br>STOT SE 3; H335<br>>= 5 %<br>Skin Sens. 1; H317<br>>= 0,2 % |  |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : fresh air. Call in physician.
- In case of skin contact : rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Seek medical advice immediately.
- In case of eye contact : rinse out with plenty of water.
- Remove contact lenses.
- If swallowed : immediately make victim drink water (two glasses at most). Consult a physician.

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

- Symptoms : Allergic reactions  
somnolence  
Drowsiness
- Nausea  
Vomiting  
Headache  
Unconsciousness  
narcosis  
Cyanosis  
Drowsiness  
inebriation  
delirium  
Salivation

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Gastrointestinal disturbance  
slow pulse

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

Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

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

Specific hazards during fire-fighting : Combustible.

Vapours are heavier than air and may spread along floors.  
Forms explosive mixtures with air at elevated temperatures.  
Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Cool closed containers exposed to fire with water spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

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

Personal precautions : Advice for non-emergency personnel:  
Do not breathe vapours, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.  
Keep away from heat and sources of ignition.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.  
Indications about waste treatment see section 13.

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### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Risk of explosion.

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

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up with liquid-absorbent material (e.g. Chemizorb® ).  
Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Do not inhale substance/mixture.  
Avoid generation of vapours/aerosols.

Observe label precautions.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

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

Requirements for storage areas and containers : Store in original container.

Further information on storage conditions : Protect against light.

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Risks from decomposition products: see section 10.3

Recommended storage temperature : If there is a suitable storage temperature range to be complied with, product label contains the relevant information accordingly.

### 7.3 Specific end use(s)

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Specific use(s) : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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

| Substance name                  | End Use   | Exposure routes | Potential health effects   | Value        |
|---------------------------------|-----------|-----------------|----------------------------|--------------|
| 2-methoxy-1-methylethyl acetate | Workers   | dermal          | Long-term systemic effects | 153,5 mg/kg  |
|                                 | Workers   | inhalation      | Long-term systemic effects | 275 mg/m3    |
|                                 | Consumers | oral            | Long-term systemic effects | 1,67 mg/kg   |
|                                 | Consumers | dermal          | Long-term systemic effects | 54,8 mg/kg   |
|                                 | Consumers | inhalation      | Long-term systemic effects | 33 mg/m3     |
| formaldehyde                    | Workers   | inhalation      | Long-term systemic effects | 9 mg/m3      |
|                                 | Workers   | inhalation      | Long-term local effects    | 0,5 mg/m3    |
|                                 | Workers   | inhalation      | Acute local effects        | 1 mg/m3      |
|                                 | Workers   | dermal          | Long-term systemic effects | 240 mg/kg    |
|                                 | Workers   | dermal          | Long-term local effects    | 0,037 mg/cm2 |
|                                 | Consumers | inhalation      | Long-term systemic effects | 3,2 mg/m3    |
|                                 | Consumers | inhalation      | Long-term local effects    | 0,1 mg/m3    |
|                                 | Consumers | dermal          | Long-term systemic effects | 120 mg/kg    |
|                                 | Consumers | dermal          | Long-term local effects    | 0,012 mg/cm2 |
|                                 | Consumers | oral            | Long-term systemic effects | 4,1 mg/kg    |

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

| Substance name                  | Environmental Compartment | Value       |
|---------------------------------|---------------------------|-------------|
| 2-methoxy-1-methylethyl acetate | Fresh water               | 0,635 mg/l  |
|                                 | Marine water              | 0,0635 mg/l |
|                                 | Fresh water sediment      | 3,29 mg/kg  |
|                                 | Marine sediment           | 0,329 mg/kg |
|                                 | Sewage treatment plant    | 100 mg/l    |
|                                 | Soil                      | 0,29 mg/kg  |

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### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Safety glasses

Hand protection :  
splash contact

Glove material : butyl-rubber

Glove thickness : 0,4 mm

Break through time : 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example:KCL 898 Butoject®(splash contact)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Respiratory protection : required when vapours/aerosols are generated.

Filter type : ABEK-filter

Protective measures : Flame retardant antistatic protective clothing.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow to red

Odour : ester-like

Melting point : -66 °C (1.013 hPa)  
(solvent)

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|                                                  |   |                                                                                                                                                                              |
|--------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Boiling point                                    | : | 145,8 °C (1.013 hPa)<br>Method: OECD Test Guideline 103<br>(solvent)                                                                                                         |
| Flammability                                     | : | Remarks: Combustible.                                                                                                                                                        |
| Upper explosion limit / Upper flammability limit | : | Upper explosion limit<br>7 %(V)<br>( 200 °C)( 1013 hPa)<br>(solvent)                                                                                                         |
| Lower explosion limit / Lower flammability limit | : | Lower explosion limit<br>1,5 %(V)<br>( 200 °C)( 1013 hPa)<br>(solvent)                                                                                                       |
| Flash point                                      | : | 45,5 °C<br>Method: ASTM D 3278, closed cup<br>(solvent)                                                                                                                      |
| Auto-ignition temperature                        | : | <br>Information on components: 2-methoxy-1-methylethyl acetate<br>333 °C (1.013 hPa)<br>Method: DIN 51794                                                                    |
| Decomposition temperature                        | : | No data available                                                                                                                                                            |
| pH                                               | : | substance/mixture is non-polar/aprotic                                                                                                                                       |
| Viscosity                                        |   |                                                                                                                                                                              |
| Viscosity, kinematic                             | : | 1,23 mm <sup>2</sup> /s (20 °C)<br>(ECHA)<br>(solvent)                                                                                                                       |
| Solubility(ies)                                  |   |                                                                                                                                                                              |
| Water solubility                                 | : | partly soluble - phase separation                                                                                                                                            |
| Solubility in other solvents                     | : | No data available                                                                                                                                                            |
| Partition coefficient: n-octanol/water           | : | No data available                                                                                                                                                            |
| Vapour pressure                                  | : | <br>Information on components: 2-methoxy-1-methylethyl acetate<br>3,55 hPa (20 °C)<br>Method: OECD Test Guideline 104<br>5,17 hPa (25 °C)<br>Method: OECD Test Guideline 104 |
| Relative density                                 | : | 1,050                                                                                                                                                                        |

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Method: (25/25°C)

Density : No data available

Relative vapour density : No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

Formation of peroxides possible.

### 10.2 Chemical stability

Sensitivity to light

Sensitive to air.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of ignition or formation of inflammable gases or vapours with:  
Oxidizing agents  
Violent reactions possible with:  
alkalines  
Peroxides  
Strong oxidizing agents

### 10.4 Conditions to avoid

Conditions to avoid : Heating.

### 10.5 Incompatible materials

Materials to avoid : no information available

### 10.6 Hazardous decomposition products

Peroxides

in the event of fire: See section 5.

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## 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 (ATE): > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : No data available

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|                       |   |                                                                            |
|-----------------------|---|----------------------------------------------------------------------------|
| Acute dermal toxicity | : | Acute Toxicity Estimate (ATE): > 2.000 mg/kg<br>Method: Calculation method |
|-----------------------|---|----------------------------------------------------------------------------|

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

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

|                     |   |                                                                                                            |
|---------------------|---|------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity | : | LD50 (Rat, male and female): 6.190 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes<br>Remarks: (ECHA) |
|---------------------|---|------------------------------------------------------------------------------------------------------------|

|                           |   |                                                                                                                                                                                                                          |
|---------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute inhalation toxicity | : | LC0 (Rat): > 8,1 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Converted acute toxicity point estimate<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: (ECHA) |
|---------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                       |   |                                                                                                              |
|-----------------------|---|--------------------------------------------------------------------------------------------------------------|
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes<br>Remarks: (ECHA) |
|-----------------------|---|--------------------------------------------------------------------------------------------------------------|

Assessment: The substance or mixture has no acute dermal toxicity

##### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

|                     |   |                                                                                         |
|---------------------|---|-----------------------------------------------------------------------------------------|
| Acute oral toxicity | : | LD50 (Rat, female): > 5.000 mg/kg<br>Method: OECD Test Guideline 401<br>Remarks: (ECHA) |
|---------------------|---|-----------------------------------------------------------------------------------------|

|                           |   |                                              |
|---------------------------|---|----------------------------------------------|
| Acute inhalation toxicity | : | Assessment: Toxic effects cannot be excluded |
|---------------------------|---|----------------------------------------------|

|                       |   |                                              |
|-----------------------|---|----------------------------------------------|
| Acute dermal toxicity | : | Assessment: Toxic effects cannot be excluded |
|-----------------------|---|----------------------------------------------|

##### **Cresol:**

|                     |   |                                                                                              |
|---------------------|---|----------------------------------------------------------------------------------------------|
| Acute oral toxicity | : | LD50 (Rat, male): 121 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: no<br>Remarks: (ECHA) |
|---------------------|---|----------------------------------------------------------------------------------------------|

|                           |   |                                              |
|---------------------------|---|----------------------------------------------|
| Acute inhalation toxicity | : | Assessment: Toxic effects cannot be excluded |
|---------------------------|---|----------------------------------------------|

|                       |   |                                             |
|-----------------------|---|---------------------------------------------|
| Acute dermal toxicity | : | LD50 (Rabbit): 301 mg/kg<br>Remarks: (ECHA) |
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### formaldehyde:

|                           |   |                                                                                                                                   |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): 100 mg/kg<br>Remarks: (Lit.)                                                                                          |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 463 ppm<br>Exposure time: 4 h<br>Test atmosphere: gas<br>Method: OECD Test Guideline 403<br>GLP: yes |
| Acute dermal toxicity     | : | LD50 (Rabbit): 270 mg/kg<br>Remarks: (OECD SIDS)                                                                                  |

### Skin corrosion/irritation

#### Product:

No data available

#### Components:

##### 2-methoxy-1-methylethyl acetate:

|               |   |                         |
|---------------|---|-------------------------|
| Species       | : | Rabbit                  |
| Exposure time | : | 24 h                    |
| Method        | : | OECD Test Guideline 404 |
| Result        | : | No skin irritation      |
| Remarks       | : | (ECHA)                  |

##### 1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |
| Result  | : | Skin irritation         |
| Remarks | : | (ECHA)                  |

|         |   |                                     |
|---------|---|-------------------------------------|
| Species | : | reconstructed human epidermis (RhE) |
| Method  | : | OECD Test Guideline 431             |
| Result  | : | non-corrosive                       |
| Remarks | : | In vitro methods<br>(ECHA)          |

#### **Cresol:**

|         |   |               |
|---------|---|---------------|
| Species | : | Rabbit        |
| Result  | : | Causes burns. |
| Remarks | : | (ECHA)        |

### formaldehyde:

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |
| Result  | : | Causes burns.           |
| Remarks | : | (ECHA)                  |

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### Serious eye damage/eye irritation

#### Product:

No data available

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 405 |
| Result  | : No eye irritation       |
| GLP     | : yes                     |
| Remarks | : (ECHA)                  |

##### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

|               |                                |
|---------------|--------------------------------|
| Species       | : In vitro study               |
| Exposure time | : 6 h                          |
| Method        | : in vitro eye irritation test |
| Result        | : No eye irritation            |
| Remarks       | : (own results)                |

##### **Cresol:**

|         |                                   |
|---------|-----------------------------------|
| Species | : Rabbit                          |
| Result  | : Risk of serious damage to eyes. |
| Remarks | : (ECHA)                          |

##### **formaldehyde:**

|            |                                   |
|------------|-----------------------------------|
| Species    | : Rabbit                          |
| Assessment | : Risk of blindness!              |
| Result     | : Irreversible effects on the eye |
| Remarks    | : (ECHA)                          |

### Respiratory or skin sensitisation

#### Product:

No data available

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

|                 |                                      |
|-----------------|--------------------------------------|
| Test Type       | : Maximisation Test                  |
| Exposure routes | : dermal                             |
| Species         | : Guinea pig                         |
| Method          | : OECD Test Guideline 406            |
| Result          | : Does not cause skin sensitisation. |
| GLP             | : yes                                |
| Remarks         | : (ECHA)                             |

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### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 442B  
Result : Does not cause skin sensitisation.  
GLP : yes

Remarks : (ECHA)

### **formaldehyde:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
Remarks : (ECHA)

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

#### **Components:**

### **2-methoxy-1-methylethyl acetate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: (ECHA)

### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
Remarks: (ECHA)

### **Cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Escherichia coli/Salmonella typhimurium  
Metabolic activation: with and without metabolic activation

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|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>Method: OECD Test Guideline 471<br/>Result: negative<br/>GLP: yes<br/>Remarks: (ECHA)</p> <p>Test Type: In vitro mammalian cell gene mutation test<br/>Test system: mouse lymphoma cells<br/>Metabolic activation: with and without metabolic activation<br/>Method: OECD Test Guideline 476<br/>Result: negative<br/>GLP: yes<br/>Remarks: (ECHA)</p> <p>Test Type: unscheduled DNA synthesis assay<br/>Test system: rat hepatocytes<br/>Metabolic activation: without metabolic activation<br/>Method: OECD Test Guideline 482<br/>Result: negative<br/>GLP: yes<br/>Remarks: (ECHA)</p> <p>Test Type: Chromosome aberration test in vitro<br/>Test system: Chinese hamster lung cells<br/>Metabolic activation: with and without metabolic activation<br/>Method: OECD Test Guideline 473<br/>Result: positive<br/>GLP: yes<br/>Remarks: (ECHA)</p> |
| Genotoxicity in vivo | <p>: Test Type: In vivo micronucleus test<br/>Species: Mouse (male and female)<br/>Cell type: Red blood cells (erythrocytes)<br/>Application Route: Oral<br/>Result: negative<br/>Remarks: (ECHA)</p> <p>Test Type: dominant lethal test<br/>Species: Mouse (male)<br/>Application Route: Oral<br/>Method: OECD Test Guideline 478<br/>Result: negative<br/>GLP: yes<br/>Remarks: (ECHA)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

#### **formaldehyde:**

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

#### **Carcinogenicity**

##### **Product:**

No data available

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### Components:

#### **formaldehyde:**

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

#### **Reproductive toxicity**

### Product:

Effects on fertility : No data available

Effects on foetal development : No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Effects on foetal development : Species: Rat, female  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL: 2,7 mg/l  
Teratogenicity: NOAEL: > 22,5 mg/l  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: (ECHA)

#### **STOT - single exposure**

### Product:

No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Assessment : May cause drowsiness or dizziness.  
Remarks : (ECHA)

#### **STOT - repeated exposure**

### Product:

No data available

#### **Repeated dose toxicity**

### Product:

No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Species : Rat, male and female  
NOAEL :  $\geq 1.000$  mg/kg  
Application Route : Oral  
Exposure time : 44 d

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|                     |   |                             |
|---------------------|---|-----------------------------|
| Number of exposures | : | daily                       |
| Method              | : | OECD Test Guideline 422     |
| Remarks             | : | (ECHA)<br>Subacute toxicity |

#### **formaldehyde:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat, male and female    |
| NOAEL             | : | 21 mg/kg                |
| LOAEL             | : | 109 mg/kg               |
| Application Route | : | Oral                    |
| Method            | : | OECD Test Guideline 453 |
| GLP               | : | yes                     |
| Remarks           | : | (ECHA)                  |

#### **Aspiration toxicity**

##### **Product:**

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. |
|------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **Further information**

##### **Product:**

|         |   |                                                                                    |
|---------|---|------------------------------------------------------------------------------------|
| Remarks | : | Property that must be anticipated on the basis from the components of the mixture: |
|---------|---|------------------------------------------------------------------------------------|

|         |   |                                                                                                                                                                                |
|---------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | : | Nausea<br>Vomiting<br>Headache<br>Unconsciousness<br>narcosis<br>Cyanosis<br>Drowsiness<br>inebriation<br>delirium<br>Salivation<br>Gastrointestinal disturbance<br>slow pulse |
|---------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|         |   |                                                                                                                           |
|---------|---|---------------------------------------------------------------------------------------------------------------------------|
| Remarks | : | Other dangerous properties can not be excluded.<br>Handle in accordance with good industrial hygiene and safety practice. |
|---------|---|---------------------------------------------------------------------------------------------------------------------------|



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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

No data available

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Oncorhynchus mykiss (rainbow trout)): 134 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>Remarks: (ECHA)                                                                                                                                                                                                                                                             |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 408 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>GLP: yes<br>Remarks: (ECHA)                                                                                                                                                                                                                                                          |
| Toxicity to algae/aquatic plants                    | : NOEC (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>Remarks: (ECHA)<br><br>ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>Remarks: (ECHA) |
| Toxicity to microorganisms                          | : EC10 (activated sludge): > 1.000 mg/l<br>Exposure time: 30 min<br>Test Type: static test<br>Method: OECD Test Guideline 209<br>Remarks: (ECHA)<br><br>EC20 (activated sludge): > 1.000 mg/l<br>Exposure time: 30 min<br>Test Type: static test<br>Method: OECD Test Guideline 209<br>Remarks: (ECHA)                                                                                                                    |

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Toxicity to fish (Chronic toxicity) : NOEC: 47,5 mg/l  
Exposure time: 14 d  
Species: *Oryzias latipes* (Orange-red killifish)  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 204  
GLP: yes  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq 100$  mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: (ECHA)

### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 22 - 50 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 13,78 mg/l  
Exposure time: 48 h  
Remarks: The value is calculated (ECHA)

Toxicity to algae/aquatic plants : EL50 (*Desmodesmus subspicatus* (green algae)): 12 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (ECHA)

Toxicity to microorganisms : EC50 :  $> 1.000$  mg/l  
Method: OECD Test Guideline 209  
Remarks: (own results)

EL50 (*Desmodesmus subspicatus* (green algae)): 12 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (ECHA)

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#### **Cresol:**

|                                                                        |                                                                                                                                                                                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,4 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Remarks: (ECHA)                                                             |
| Toxicity to daphnia and other aquatic invertebrates                    | : EC50 (Daphnia magna (Water flea)): 7,7 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Analytical monitoring: no<br>Method: DIN 38412 part 11<br>GLP: no<br>Remarks: (ECHA) |
| Toxicity to algae/aquatic plants                                       | : ErC50 (Desmodesmus subspicatus (green algae)): 21 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: DIN 38412 part 9<br>Remarks: (ECHA)                               |
| Toxicity to microorganisms                                             | : EC50 (activated sludge): 11,4 mg/l<br>Exposure time: 4 h<br>Test Type: static test<br>Analytical monitoring: no<br>GLP: no<br>Remarks: (ECHA)                                        |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: 1,35 mg/l<br>Exposure time: 32 d<br>Species: Pimephales promelas (fathead minnow)<br>Test Type: flow-through test<br>Method: OECD Test Guideline 210<br>Remarks: (ECHA)        |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 1 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test Type: semi-static test<br>Analytical monitoring: yes<br>Remarks: (ECHA)                           |

## 12.2 Persistence and degradability

#### **Product:**

No data available

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#### Components:

##### **2-methoxy-1-methylethyl acetate:**

|                                 |   |                                                                                                                                                                                                                                  |
|---------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability                | : | Test Type: aerobic<br>Inoculum: activated sludge<br>Concentration: 76,4 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 83 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F<br>GLP: yes<br>Remarks: (ECHA) |
| Biochemical Oxygen Demand (BOD) | : | 330 mg/g<br>Incubation time: 5 d<br>Remarks: (IUCLID)                                                                                                                                                                            |
| Chemical Oxygen Demand (COD)    | : | 1.740 mg/g<br>Remarks: (IUCLID)                                                                                                                                                                                                  |
| ThOD                            | : | 1.820 mg/g<br>Remarks: (IUCLID)                                                                                                                                                                                                  |

##### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

|                  |   |                                                                                                                                                                                                                           |
|------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : | Test Type: aerobic<br>Inoculum: activated sludge<br>Concentration: 1.716 mg/l<br>Result: Not readily biodegradable.<br>Biodegradation: 39 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301D<br>Remarks: (ECHA) |
|------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### **Cresol:**

|                  |   |                                                                                                                                                                                                                     |
|------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : | Test Type: aerobic<br>Inoculum: activated sludge<br>Concentration: 0,8 mg/l<br>Result: Readily biodegradable.<br>Biodegradation: 90 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301D<br>Remarks: (ECHA) |
|------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.3 Bioaccumulative potential

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#### **Product:**

No data available

#### **Components:**

##### **2-methoxy-1-methylethyl acetate:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8  
Method: OECD Test Guideline 117  
GLP: yes  
Remarks: Bioaccumulation is not expected.  
(ECHA)

##### **1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone:**

Partition coefficient: n-octanol/water : log Pow: 3,2  
Method: (calculated)  
Remarks: EPI Suite™  
Bioaccumulation is not expected.  
(ECHA)

##### **Cresol:**

Partition coefficient: n-octanol/water : log Pow: 2,33  
Method: OECD Test Guideline 117  
Remarks: Bioaccumulation is not expected.  
(ECHA)

##### **formaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 0,35 (25 °C)  
Remarks: Bioaccumulation is not expected.

### 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

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0.1% or higher.

#### Components:

##### **2-methoxy-1-methylethyl acetate:**

Assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

##### **formaldehyde:**

Assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## 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 : Discharge into the environment must be avoided.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Waste should not be disposed of by release to sewers.

---

## SECTION 14: Transport information

#### Air transport (IATA)

14.1. UN/ID No. : UN 1993

14.2. Proper shipping name : Flammable liquid, n.o.s.

(2-methoxy-1-methylethyl acetate)

14.3. Class : 3

14.4. Packing group : III

14.5 Environmentally hazardous : --

14.6 Special precautions for user : no

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### Sea transport (IMDG)

14.1. UN number : UN 1993  
14.2. Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(2-methoxy-1-methylethyl acetate)  
14.3. Class : 3  
14.4. Packing group : III  
14.5 Environmentally hazardous : --  
14.6 Special precautions for user : yes  
EmS Code : F-E, S-E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

### Land transport (ADR/RID)

14.1. UN number : UN 1993  
14.2. Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(2-methoxy-1-methylethyl acetate)  
14.3. Class : 3  
14.4. Packing group : III  
14.5 Environmentally hazardous : --  
14.6 Special precautions for user : yes  
Tunnel restriction code : (D/E)

### Inland waterway transport (ADN)

ADN Classification : Not Assigned

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.

---

## SECTION 15: Regulatory information

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

|                                                                                                                                            |                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered:<br>Number on list 3<br><br>formaldehyde (Number on list 72, 28)<br>N-methyl-2-pyrrolidone (Number on list 72, 71, 30) |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                                                  | : Not applicable                                                                                                                                                                                  |

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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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

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

Storage class (TRGS 510) : 3, Flammable liquids

### Other regulations:

Take note of Dir 94/33/EC on the protection of young people at work.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                      |
|------|------------------------------------------------------|
| H226 | : Flammable liquid and vapour.                       |
| H228 | : Flammable solid.                                   |
| H242 | : Heating may cause a fire.                          |
| H301 | : Toxic 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.                         |
| H330 | : Fatal if inhaled.                                  |
| H336 | : May cause drowsiness or dizziness.                 |
| H341 | : Suspected of causing genetic defects.              |
| H350 | : May cause cancer.                                  |
| H412 | : Harmful to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                 |                                         |
|-----------------|-----------------------------------------|
| Acute Tox.      | : Acute toxicity                        |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard    |
| Carc.           | : Carcinogenicity                       |
| Eye Dam.        | : Serious eye damage                    |
| Flam. Liq.      | : Flammable liquids                     |
| Flam. Sol.      | : Flammable solids                      |
| Muta.           | : Germ cell mutagenicity                |
| Self-react.     | : Self-reactive substances and mixtures |
| Skin Corr.      | : Skin corrosion                        |



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|             |   |                                                  |
|-------------|---|--------------------------------------------------|
| Skin Irrit. | : | Skin irritation                                  |
| Skin Sens.  | : | Skin sensitisation                               |
| STOT SE     | : | Specific target organ toxicity - single exposure |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>).

#### Revision Note

Safety datasheet sections : General revision  
which have been updated

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**Classification of the mixture:**

Flam. Liq. 3

H226

STOT SE 3

H336

**Classification procedure:**

Based on product data or assessment

Calculation method

### Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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