

## Safety Data Sheet

according to UK REACH Regulation

### EpoCore Series

Revision date: 01.01.2022

Product code: EpoCore

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

### 1.1. Product identifier

EpoCore Series

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

#### Use of the substance/mixture

Photoresist

Product Categories [PC]: Photochemical

Sector of uses [SU]: Manufacture of computer, electronic and optical products, electrical equipment.

#### Uses advised against

Do not use for private purposes (household).

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

|               |                              |                            |  |
|---------------|------------------------------|----------------------------|--|
| Company name: | micro resist technology GmbH |                            |  |
| Street:       | Koepenicker Str. 325         |                            |  |
| Place:        | D-12555 Berlin               |                            |  |
| Telephone:    | +49 30 641670-100            | Telefax: +49 30 641670-200 |  |
| e-mail:       | safety@microresist.de        |                            |  |
| Internet:     | www.microresist.de           |                            |  |

### 1.4. Emergency telephone number:

Chemtrec (International - 24 h): +1 703 527 3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Skin Irrit. 2; H315

Eye Dam. 1; H318

Skin Sens. 1; H317

STOT SE 3; H336

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

#### Hazard components for labelling

gamma-butyrolactone

epoxy resin

Mixture of triarylsulfonium hexafluoroantimonate salts

Signal word: Danger

#### Pictograms:



#### Hazard statements

|      |  |
|------|--|
| H315 | Causes skin irritation.                          |
| H317 | May cause an allergic skin reaction.             |
| H318 | Causes serious eye damage.                       |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

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#### Precautionary statements

|                |  |
|----------------|--|
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P272           | Contaminated work clothing should not be allowed out of the workplace.   |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.                                    |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P312           | Call a POISON CENTER/doctor if you feel unwell.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.   |
| P391           | Collect spillage.  |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.   |
| P405           | Store locked up.   |

#### 2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No      | Chemical name  |              |                  | Quantity  |
|-------------|--|--------------|------------------|-----------|
|             | EC No  | Index No     | REACH No         |           |
|             | Classification (GB CLP Regulation)                               |              |                  |           |
| 96-48-0     | gamma-butyrolactone  |              |                  | 20 - 60 % |
|             | 202-509-5  |              | 01-2119533169-37 |           |
|             | Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H336              |              |                  |           |
| 28906-96-9  | epoxy resin  |              |                  | 10 - 70 % |
|             | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317        |              |                  |           |
| 108-32-7    | propylene carbonate  |              |                  | 1 - 15 %  |
|             | 203-572-1  | 607-194-00-1 |                  |           |
|             | Eye Irrit. 2; H319   |              |                  |           |
| 109037-75-4 | Mixture of triarylsulfonium hexafluoroantimonate salts           |              |                  | 1 - 15 %  |
|             | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410 |              |                  |           |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name  | Quantity  |
|----------|-----------|--|-----------|
|          |           | Specific Conc. Limits, M-factors and ATE               |           |
| 96-48-0  | 202-509-5 | gamma-butyrolactone                                    | 20 - 60 % |
|          |           | dermal: LD50 = >5000 mg/kg; oral: LD50 = 1582 mg/kg    |           |
| 108-32-7 | 203-572-1 | propylene carbonate                                    | 1 - 15 %  |
|          |           | dermal: LD50 = > 23800 mg/kg; oral: LD50 = 34600 mg/kg |           |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air. In case of breathing difficulties administer oxygen. If victim is at risk of losing consciousness, position and transport on their side. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

After contact with skin, wash immediately with plenty of water. Change contaminated clothing. Subsequently wash off with: Water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Call a physician immediately.

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

May cause an allergic skin reaction.

Causes serious eye damage.

Causes skin irritation.

May cause drowsiness or dizziness.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.

**Unsuitable extinguishing media**

High power water jet.

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

In case of fire and/or explosion do not breathe fumes.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal. Clean contaminated articles and floor according to the environmental legislation. Do not rinse down with water.

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#### 6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.  
See protective measures under point 7 and 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

##### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

##### Advice on general occupational hygiene

When using do not eat, drink or smoke. Protect skin by using skin protective cream. After work, wash hands and face. Immediately remove any wetted clothing, shoes or stockings.

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

##### Requirements for storage rooms and vessels

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Suitable floor material: Solvent-proof.

Keep container tightly closed in a cool, well-ventilated place.

Further information concerning storage conditions: Observe technical data sheet.: Processing Guidelines

##### Hints on joint storage

Do not store together with:

Oxidising agent

Self-heating substances and mixtures

##### Further information on storage conditions

Protect against: heat. UV-radiation/sunlight.

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

No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

| CAS No                 | Substance           |                |          |                 |
|------------------------|---------------------|----------------|----------|-----------------|
| DNEL type              |                     | Exposure route | Effect   | Value           |
| 96-48-0                | gamma-butyrolactone |                |          |                 |
| Worker DNEL, long-term |                     | inhalation     | systemic | 130 mg/m³       |
| Worker DNEL, acute     |                     | inhalation     | systemic | 958 mg/m³       |
| Worker DNEL, long-term |                     | dermal         | systemic | 19 mg/kg bw/day |

##### PNEC values

| CAS No                    | Substance           |  |
|---------------------------|---------------------|--|
| Environmental compartment | Value               |  |
| 96-48-0                   | gamma-butyrolactone |  |
| Freshwater                | 0,056 mg/l          |  |
| Marine water              | 0,006 mg/l          |  |
| Freshwater sediment       | 0,24 mg/kg          |  |
| Marine sediment           | 0,02 mg/kg          |  |
| Soil                      | 0,015 mg/kg         |  |

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#### Additional advice on limit values

No data available

#### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment. Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact:

Suitable material: Butyl rubber.

Thickness of glove material: 0.7 mm

penetration time (maximum wearing period): > 480 min

Recommended protective gloves brand: KCL 898 Butoject, Manufacturer: KCL GmbH, D-36124 Eichenzell,

Source of supply: [www.kcl.de](http://www.kcl.de)

Wearing time with occasional contact (splashes):

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

penetration time (maximum wearing period): > 30 min

Recommended protective gloves brand: KCL 730 Camatril-Velours, Manufacturer: KCL GmbH, D-36124

Eichenzell, Source of supply: [www.kcl.de](http://www.kcl.de)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

##### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: aerosol or mist generation. Filtering device (full mask or mouthpiece) with filter: a

##### Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:

liquid

Colour:

colourless

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Odour: characteristic

|   | Test method                  |
|---|------------------------------|
| Melting point/freezing point:                             | No data available            |
| Boiling point or initial boiling point and boiling range: | 204 °C @000000000004         |
| Flammability:   | No data available            |
| Lower explosion limits:                                   | No data available            |
| Upper explosion limits:                                   | No data available            |
| Flash point:  | >70 °C DIN EN ISO 13736      |
| Auto-ignition temperature:                                | No data available            |
| Decomposition temperature:                                | No data available            |
| pH-Value:   | No data available            |
| Viscosity / kinematic:                                    | No data available            |
| Water solubility:   | No data available            |
| Solubility in other solvents:                             | No data available            |
| No data available   |                              |
| Partition coefficient n-octanol/water:                    | No data available            |
| Vapour pressure:  | No data available            |
| Vapour pressure:  | No data available            |
| Density (at 20 °C):                                       | 1,0 - 1,22 g/cm <sup>3</sup> |
| Relative vapour density:                                  | No data available            |

#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

##### Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

30-1200 mPa·s

(at 20 °C)

Flow time:

No data available

##### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

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No data available

#### 10.4. Conditions to avoid

UV-radiation/sunlight.

Keep away from heat. Ignition hazard.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Take precautionary measures against static discharges.

#### 10.5. Incompatible materials

Oxidizing agents.

Acid, concentrated.

Alkalis (alkalis), concentrated.

#### 10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Acute toxicity

Based on available data, the classification criteria are not met.

@0000000000004 :

Acute toxicity, oral LD50: 1540 mg/kg species: Rat (IUCLID)

| CAS No   | Chemical name       |               |         |             |        |
|----------|---------------------|---------------|---------|-------------|--------|
|          | Exposure route      | Dose          | Species | Source      | Method |
| 96-48-0  | gamma-butyrolactone |               |         |             |        |
|          | oral                | LD50<br>mg/kg | 1582    | Rat         | ECHA   |
|          | dermal              | LD50<br>mg/kg | >5000   | Guinea-pig. |        |
| 108-32-7 | propylene carbonate |               |         |             |        |
|          | oral                | LD50<br>mg/kg | 34600   | Rat         | GESTIS |
|          | dermal              | LD50<br>mg/kg | > 23800 | Rabbit      | GESTIS |

##### Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Method: Calculation method.

##### Sensitising effects

May cause an allergic skin reaction. (epoxy resin; Mixture of triarylsulfonium hexafluoroantimonate salts)

Method: Calculation method.

##### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

##### STOT-single exposure

May cause drowsiness or dizziness. (gamma-butyrolactone)

Method: Calculation method.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Information on likely routes of exposure

inhalation, ingestion, skin contact, eye contact

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#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

@000000000004 :

Acute fish toxicity LC50: 460 mg/L 96h Leuciscus idus

| CAS No  | Chemical name            |              |           |         |                                   |        |
|---------|--------------------------|--------------|-----------|---------|-----------------------------------|--------|
|         | Aquatic toxicity         | Dose         | [h]   [d] | Species | Source                            | Method |
| 96-48-0 | gamma-butyrolactone      |              |           |         |                                   |        |
|         | Acute fish toxicity      | LC50<br>mg/l | >220      | 96 h    | Leuciscus idus<br>(golden orfe)   |        |
|         | Acute algae toxicity     | ErC50        | 360 mg/l  | 72 h    | Desmodesmus<br>subspicatus        |        |
|         | Acute crustacea toxicity | EC50<br>mg/l | >500      | 48 h    | Daphnia magna (Big<br>water flea) |        |

#### 12.2. Persistence and degradability

No data available

| CAS No  | Chemical name       |       |    |        |
|---------|---------------------|-------|----|--------|
|         | Method              | Value | d  | Source |
|         | Evaluation          |       |    |        |
| 96-48-0 | gamma-butyrolactone |       |    |        |
|         |                     | 90%   | 13 |        |

#### 12.3. Bioaccumulative potential

No data available

##### Partition coefficient n-octanol/water

| CAS No   | Chemical name       | Log Pow |
|----------|---------------------|---------|
| 96-48-0  | gamma-butyrolactone | -0,57   |
| 108-32-7 | propylene carbonate | -0,41   |

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

No data available

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains.

Dispose of waste according to applicable legislation.

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Consult the local waste disposal expert about waste disposal.

#### Contaminated packaging

Dispose of waste according to applicable legislation.

Consult the local waste disposal expert about waste disposal.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### 14.1. UN number or ID number:

UN 3082

##### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Mixture of triarylsulfonium hexafluoroantimonate salts)

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

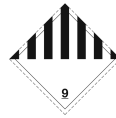
9

##### 14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

#### Marine transport (IMDG)

##### 14.1. UN number or ID number:

UN 3082

##### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Mixture of triarylsulfonium hexafluoroantimonate salts)

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

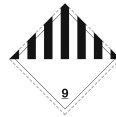
9

##### 14.4. Packing group:

III

Hazard label:

9



Special Provisions:

274, 335, 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

#### Air transport (ICAO-TI/IATA-DGR)

##### 14.1. UN number or ID number:

UN 3082

##### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Mixture of triarylsulfonium hexafluoroantimonate salts)

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

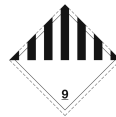
9

##### 14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A197

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

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|  |       |
|--|-------|
| IATA-packing instructions - Passenger: | 964   |
| IATA-max. quantity - Passenger:        | 450 L |
| IATA-packing instructions - Cargo:     | 964   |
| IATA-max. quantity - Cargo:            | 450 L |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Mixture of triarylsulfonium hexafluoroantimonate salts

#### 14.6. Special precautions for user

No data available

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

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): 31-75 %

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

chapter: 1, 7, 9, 11, 13, 14

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

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#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Dam. 1; H318        | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| STOT SE 3; H336         | Calculation method       |
| Aquatic Chronic 2; H411 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*