

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® CW 1312 GB

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 27.06.2019  |
| 2.0     | 19.06.2023     | 400001007669 | Date of first issue: 02.08.2018 |

Print Date 01.07.2024

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

#### 1.1 Product identifier

Trade name : ARALDITE® CW 1312 GB

Unique Formula Identifier (UFI) : ES0F-60UD-M00E-M7T1

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

Use of the Substance/Mixture : Component used for the manufacture of electrical insulation parts

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

Company : Huntsman Advanced Materials (Europe) BV  
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)

|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Skin irritation, Category 2                    | H315: Causes skin irritation.                            |
| Eye irritation, Category 2                     | H319: Causes serious eye irritation.                     |
| Skin sensitisation, Category 1                 | H317: May cause an allergic skin reaction.               |
| 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 : Warning

Hazard statements :

|      |                                                    |
|------|----------------------------------------------------|
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H319 | Causes serious eye irritation.                     |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

**Prevention:**

|      |                                                          |
|------|----------------------------------------------------------|
| P261 | Avoid breathing mist or vapours.                         |
| P264 | Wash skin thoroughly after handling.                     |
| P273 | Avoid release to the environment.                        |
| P280 | Wear protective gloves/ eye protection/ face protection. |

**Response:**

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention.        |

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane  
Polypropyleneglycol diglycidylether

### 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

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

| Chemical name                                                       | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                                                                | Concentration<br>(% w/w) |
|---------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane | 1675-54-3<br>216-823-5<br>603-073-00-2<br>01-2119456619-26 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Aquatic Chronic 2; H411<br><br>specific concentration limit<br>Skin Irrit. 2; H315<br>≥ 5 %<br>Eye Irrit. 2; H319<br>≥ 5 % | ≥ 10 -<br>< 20           |
| Polypropyleneglycol diglycidylether                                 | 9072-62-2<br>Polymer                                       | Skin Sens. 1; H317                                                                                                                                                                            | ≥ 10 -<br>< 20           |
| Substances with a workplace exposure limit :                        |                                                            |                                                                                                                                                                                               |                          |
| kaolin                                                              | 1332-58-7<br>310-194-1                                     |                                                                                                                                                                                               | ≥ 1 - <<br>10            |

For explanation of abbreviations see section 16.

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

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mouth-to-mouth resuscitation.

- |                         |   |                                                                                                                                                                    |
|-------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                                                                       |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                             |
| In case of eye contact  | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : | Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.                                  |

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

None known.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |   |                                                                                            |
|--------------------------------|---|--------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : | Exercise caution when using a high volume water jet as it may scatter and spread fire      |

### 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        | : | Metal oxides<br>Carbon oxides<br>Halogenated compounds<br>Carbon monoxide<br>Carbon dioxide (CO <sub>2</sub> ) |

### 5.3 Advice for firefighters

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

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

## SECTION 6: Accidental release measures

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

- |                      |   |                                                                                                |
|----------------------|---|------------------------------------------------------------------------------------------------|
| Personal precautions | : | Use personal protective equipment.<br>Refer to protective measures listed in sections 7 and 8. |
|----------------------|---|------------------------------------------------------------------------------------------------|

### 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 | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |
|-------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                                                 |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling                         | : | Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.<br>Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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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 : 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. Keep in properly labelled containers.

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

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : Stable under normal conditions.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.                    | Value type (Form of exposure) | Control parameters | Basis      |
|---------------------|----------------------------|-------------------------------|--------------------|------------|
| calcium carbonate   | 471-34-1                   | VME                           | 10 mg/m3           | FR VLE     |
| Further information | Indicative exposure limits |                               |                    |            |
| kaolin              | 1332-58-7                  | VME                           | 10 mg/m3           | FR VLE     |
| Further information | Indicative exposure limits |                               |                    |            |
|                     |                            | TWA (Respirable dust)         | 0,1 mg/m3          | 2004/37/EC |
| Further information | Carcinogens or mutagens    |                               |                    |            |

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

| Substance name                                                      | End Use   | Exposure routes | Potential health effects   | Value               |
|---------------------------------------------------------------------|-----------|-----------------|----------------------------|---------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane | Workers   | Inhalation      | Long-term systemic effects | 4,93 mg/m3          |
|                                                                     | Workers   | Dermal          | Long-term systemic effects | 0,75 mg/kg bw/day   |
|                                                                     | Consumers | Inhalation      | Long-term systemic effects | 0,87 mg/m3          |
|                                                                     | Consumers | Dermal          | Long-term systemic effects | 0,0893 mg/kg bw/day |

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|                   |           |            |                            |                  |
|-------------------|-----------|------------|----------------------------|------------------|
|                   | Consumers | Oral       | Long-term systemic effects | 0,5 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       |

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

| Substance name                                                      | Environmental Compartment | Value                         |
|---------------------------------------------------------------------|---------------------------|-------------------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane | Fresh water               | 0,006 mg/l                    |
|                                                                     | Marine water              | 0,001 mg/l                    |
|                                                                     | Fresh water sediment      | 0,341 mg/kg dry weight (d.w.) |
|                                                                     | Marine sediment           | 0,034 mg/kg dry weight (d.w.) |
|                                                                     | Soil                      | 0,065 mg/kg dry weight (d.w.) |
|                                                                     | Sewage treatment plant    | 10 mg/l                       |
|                                                                     | Secondary Poisoning       | 11 mg/kg                      |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face 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  
Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)

Material : Nitrile rubber  
Break through time : 10 - 480 min

Material : Neoprene gloves

Remarks : 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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines  
Equipment should conform to EN 14387

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

### SECTION 9: Physical and chemical properties

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

|                                                  |                                                             |
|--------------------------------------------------|-------------------------------------------------------------|
| Physical state                                   | : paste                                                     |
| Colour                                           | : off-white                                                 |
| Odour                                            | : slight                                                    |
| Odour Threshold                                  | : No data is available on the product itself.               |
| pH                                               | : substance/mixture is non-soluble (in water)               |
| Melting point/freezing point                     | : No data is available on the product itself.               |
| Boiling point                                    | : > 200 °C                                                  |
| Flash point                                      | : > 200 °C<br>Method: Pensky-Martens closed cup, closed cup |
| 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                                  | : < 0,0001 hPa (20 °C)                                      |
| Relative vapour density                          | : No data is available on the product itself.               |
| Relative density                                 | : No data is available on the product itself.               |
| Density                                          | : 1,85 g/cm <sup>3</sup> (20 °C)                            |
| Solubility(ies)                                  |                                                             |
| Water solubility                                 | : practically insoluble (20 °C)                             |
| Solubility in other solvents                     | : No data is available on the product itself.               |
| Partition coefficient: n-octanol/water           | : No data is available on the product itself.               |
| Auto-ignition temperature                        | : No data is available on the product itself.               |
| Decomposition temperature                        | : > 200 °C                                                  |
| Viscosity                                        |                                                             |

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Viscosity, dynamic : 15 000 - 22 000 mPa.s (25 °C)  
Method: ISO 3219

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : aluminium oxide  
carbon dioxide  
carbon monoxide  
Halogenated compounds

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 5 000 mg/kg

##### Components:

#### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Acute oral toxicity : LD50 (Rat, female): > 2 000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402

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Assessment: The substance or mixture has no acute dermal toxicity

### Polypropyleneglycol diglycidylether:

Acute oral toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Median lethal dose (Rat, male and female): >5 ml/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

#### Components:

#### 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species : Rabbit  
Exposure time : 4 h  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

### Polypropyleneglycol diglycidylether:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Components:

#### 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species : Rabbit  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

### Polypropyleneglycol diglycidylether:

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

### Respiratory or skin sensitisation

#### Product:

Exposure routes : Skin  
Species : Guinea pig  
Result : Causes sensitisation.

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### Components:

#### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Test Type       | : Local lymph node assay (LLNA)                      |
| Exposure routes | : Skin                                               |
| Species         | : Mouse                                              |
| Method          | : OECD Test Guideline 429                            |
| Result          | : The product is a skin sensitiser, sub-category 1B. |

#### **Polypropyleneglycol diglycidylether:**

|                 |                                            |
|-----------------|--------------------------------------------|
| Exposure routes | : Skin                                     |
| Species         | : Guinea pig                               |
| Result          | : May cause sensitisation by skin contact. |

### **Germ cell mutagenicity**

#### Components:

#### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test<br>Test system: mouse lymphoma cells<br>Metabolic activation: without metabolic activation<br>Result: positive<br><br>Test Type: reverse mutation assay<br>Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)<br>Result: negative |
| Genotoxicity in vivo  | : Test Type: in vivo assay<br>Species: Mouse (male)<br>Cell type: Germ<br>Application Route: Oral<br>Dose: 3333, 10000 mg/kg<br>Result: negative<br><br>Test Type: gene mutation test<br>Species: Rat (male)<br>Cell type: Somatic<br>Application Route: Oral<br>Dose: 50,250,500,1000 mg/kg bw/day<br>Method: OECD Test Guideline 488<br>Result: negative                                                          |

#### **Polypropyleneglycol diglycidylether:**

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Ames test<br>Test system: Salmonella typhimurium<br>Metabolic activation: Metabolic activation<br>Method: OECD Test Guideline 471<br>Result: positive<br>GLP: no |
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### Carcinogenicity

#### Components:

##### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

|                        |                                 |
|------------------------|---------------------------------|
| Species                | : Rat, male                     |
| Application Route      | : Oral                          |
| Exposure time          | : 24 month(s)                   |
| Dose                   | : 0, 2, 15, or 100 mg/kg bw/day |
| Frequency of Treatment | : 7 days/week                   |
| NOAEL                  | : 15 mg/kg bw/day               |
| Method                 | : OECD Test Guideline 453       |
| Result                 | : negative                      |
| Target Organs          | : Digestive organs              |

|                        |                                |
|------------------------|--------------------------------|
| Species                | : Mouse, male                  |
| Application Route      | : Dermal                       |
| Exposure time          | : 24 month(s)                  |
| Dose                   | : 0, 0.1, 10, 100 mg/kg bw/day |
| Frequency of Treatment | : 3 days/week                  |
| NOEL                   | : 0,1 mg/kg body weight        |
| Method                 | : OECD Test Guideline 453      |
| Result                 | : negative                     |
| Target Organs          | : Digestive organs             |

|                        |                               |
|------------------------|-------------------------------|
| Species                | : Rat, female                 |
| Application Route      | : Dermal                      |
| Exposure time          | : 24 month(s)                 |
| Dose                   | : 0.1, 100, 1000 mg/kg bw/day |
| Frequency of Treatment | : 5 days/week                 |
| NOEL                   | : 100 mg/kg body weight       |
| Method                 | : OECD Test Guideline 453     |
| Result                 | : negative                    |

|                        |                                 |
|------------------------|---------------------------------|
| Species                | : Rat, female                   |
| Application Route      | : Oral                          |
| Exposure time          | : 24 month(s)                   |
| Dose                   | : 0, 2, 15, or 100 mg/kg bw/day |
| Frequency of Treatment | : 7 days/week                   |
| NOAEL                  | : 100 mg/kg bw/day              |
| Method                 | : OECD Test Guideline 453       |
| Result                 | : negative                      |
| Target Organs          | : Digestive organs              |

|                        |                                 |
|------------------------|---------------------------------|
| Species                | : Rat, females                  |
| Application Route      | : Oral                          |
| Exposure time          | : 24 month(s)                   |
| Dose                   | : 0, 2, 15, or 100 mg/kg bw/day |
| Frequency of Treatment | : 7 days/week                   |
| NOEL                   | : 2 mg/kg bw/day                |
| Method                 | : OECD Test Guideline 453       |
| Result                 | : negative                      |
| Target Organs          | : Digestive organs              |

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### Reproductive toxicity

#### Components:

#### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 180, 540 or 750 milligram per kilogram  
Duration of Single Treatment: 238 d  
Frequency of Treatment: 1 daily  
General Toxicity - Parent: NOEL: 540 mg/kg body weight  
General Toxicity F1: NOEL: 750 mg/kg body weight  
Symptoms: No adverse effects  
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.

Effects on foetal development : Species: Rabbit, female  
Application Route: Dermal  
Dose: 0, 30, 100 or 300 milligram per kilogram  
Duration of Single Treatment: 28 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 30 mg/kg body weight  
Developmental Toxicity: NOAEL: 300 mg/kg body weight  
Method: Other guidelines  
Result: No teratogenic effects

Test Type: Pre-natal  
Species: Rabbit, female  
Application Route: Oral  
Dose: 0, 20, 60 or 180 milligram per kilogram  
Duration of Single Treatment: 13 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 60 mg/kg body weight  
Developmental Toxicity: NOAEL: 180 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 0, 60, 180 and 540 milligram per kilogram  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 180 mg/kg body weight  
Developmental Toxicity: NOAEL: > 540 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

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

No data available

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

No data available

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### Repeated dose toxicity

#### Components:

##### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

|                     |                              |
|---------------------|------------------------------|
| Species             | : Rat, male and female       |
| NOAEL               | : 50 mg/kg                   |
| Application Route   | : oral (gavage)              |
| Exposure time       | : 14 Weeks                   |
| Number of exposures | : 7 d                        |
| Dose                | : 0, 50, 250, 1000 mg/kg/day |
| Method              | : OECD Test Guideline 408    |

|                     |                              |
|---------------------|------------------------------|
| Species             | : Rat, male and female       |
| NOAEL               | : >= 10 mg/kg                |
| Application Route   | : Skin contact               |
| Exposure time       | : 13 Weeks                   |
| Number of exposures | : 5 d                        |
| Dose                | : 0, 10, 100, 1000 mg/kg/day |
| Method              | : OECD Test Guideline 411    |

|                     |                           |
|---------------------|---------------------------|
| Species             | : Mouse, male             |
| NOAEL               | : 100 mg/kg               |
| Application Route   | : Skin contact            |
| Exposure time       | : 13 Weeks                |
| Number of exposures | : 3 d                     |
| Dose                | : 0, 1, 10, 100 mg/kg/day |
| Method              | : OECD Test Guideline 411 |

### 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

No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,8 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 : 11 mg/l  
plants  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: EPA-660/3-75-009

NOEC : 4,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: EPA-660/3-75-009

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water

Toxicity to daphnia and other : NOEC: 0,3 mg/l  
aquatic invertebrates  
Exposure time: 21 d  
(Chronic toxicity) Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

##### **Polypropyleneglycol diglycidylether:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 320 mg/l  
aquatic invertebrates  
End point: Immobilization

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Exposure time: 24 h  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Test Type: Fresh water

### 12.2 Persistence and degradability

#### Components:

##### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 20 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): 4,83 d (25 °C)  
pH: 4  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 7,1 d (25 °C)  
pH: 9  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 3,58 d (25 °C)  
pH: 7  
Method: OECD Test Guideline 111  
Remarks: Fresh water

##### **Polypropyleneglycol diglycidylether:**

Biodegradability : Inoculum: Sewage (STP effluent)  
Concentration: 20 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

#### Components:

##### **2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Bioaccumulation : Bioconcentration factor (BCF): 31  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,242 (25 °C)  
pH: 7,1

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Method: OECD Test Guideline 117

### 12.4 Mobility in soil

#### Components:

**2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:**

Distribution among : Koc: 445  
environmental compartments

### 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.

## 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.                                                                                                                                               |

## SECTION 14: Transport information

### 14.1 UN number or ID number

UNRTDG : Not regulated as dangerous goods

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|      |   |                                  |
|------|---|----------------------------------|
| ADN  | : | Not regulated as dangerous goods |
| ADR  | : | Not regulated as dangerous goods |
| RID  | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| IATA | : | Not regulated as dangerous goods |

### 14.2 UN proper shipping name

|        |   |                                  |
|--------|---|----------------------------------|
| UNRTDG | : | Not regulated as dangerous goods |
| ADN    | : | Not regulated as dangerous goods |
| ADR    | : | Not regulated as dangerous goods |
| RID    | : | Not regulated as dangerous goods |
| IMDG   | : | Not regulated as dangerous goods |
| IATA   | : | Not regulated as dangerous goods |

### 14.3 Transport hazard class(es)

|      |   |                                  |
|------|---|----------------------------------|
| ADN  | : | Not regulated as dangerous goods |
| ADR  | : | Not regulated as dangerous goods |
| RID  | : | Not regulated as dangerous goods |
| IMDG | : | Not regulated as dangerous goods |
| IATA | : | Not regulated as dangerous goods |

### 14.4 Packing group

|                  |   |                                  |
|------------------|---|----------------------------------|
| ADN              | : | Not regulated as dangerous goods |
| ADR              | : | Not regulated as dangerous goods |
| RID              | : | Not regulated as dangerous goods |
| IMDG             | : | Not regulated as dangerous goods |
| IATA (Cargo)     | : | Not regulated as dangerous goods |
| IATA (Passenger) | : | Not regulated as dangerous goods |

### 14.5 Environmental hazards

Not regulated as dangerous goods

### 14.6 Special precautions for user

Not applicable

### 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).

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:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

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

Not applicable

Occupational Illnesses (R-461-3, France) : 51, 84, 25

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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 : All components of this product are on the Canadian DSL

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

NZIoC : Not in compliance with the inventory

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

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

### Inventories

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

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                    |
|------|----------------------------------------------------|
| H315 | : Causes skin irritation.                          |
| H317 | : May cause an allergic skin reaction.             |
| H319 | : Causes serious eye irritation.                   |
| H411 | : Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                  |                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Chronic  | : Long-term (chronic) aquatic hazard                                                                                              |
| Eye Irrit.       | : Eye irritation                                                                                                                  |
| Skin Irrit.      | : Skin irritation                                                                                                                 |
| Skin Sens.       | : Skin sensitisation                                                                                                              |
| 2004/37/EC       | : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| FR VLE           | : France. Occupational Exposure Limits                                                                                            |
| 2004/37/EC / TWA | : Long term exposure limit                                                                                                        |
| FR VLE / VME     | : Time Weighted Average                                                                                                           |

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| Skin Sens. 1      | H317 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

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