

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® HY 5731 BD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 19.06.2018  |
| 1.1     | 24.04.2023     | 400001008057 | Date of first issue: 19.06.2018 |

Print Date 26.03.2024

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

#### 1.1 Product identifier

Trade name : ARADUR® HY 5731 BD

Unique Formula Identifier (UFI) : R2QE-00UJ-000G-VNXR

#### 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 4 | H413: May cause long lasting harmful effects to aquatic life. |

### 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.                          |
| H413 | May cause long lasting harmful effects to aquatic life. |

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:

dihydro-3-(tetrapropenyl)furan-2,5-dione

### 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) |
|------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| dihydro-3-(tetrapropenyl)furan-2,5-dione | 26544-38-7<br>247-781-6                                   | Eye Irrit. 2; H319<br>Skin Sens. 1A; H317<br>Aquatic Chronic 4;<br>H413                                                                                                                                                                   | >= 70 -<br>< 90          |
| Propane-1,2-diol, propoxylated           | 25322-69-4<br>Polymer                                     | Acute Tox. 4; H302<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>500,05 mg/kg                                                                                                                                             | >= 10 -<br>< 20          |
| benzyltrimethylamine                     | 103-83-3<br>203-149-1<br>612-074-00-7<br>01-2119529232-48 | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>Acute Tox. 3; H331<br>Acute Tox. 4; H312<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br><br>Acute toxicity estimate<br><br>Acute dermal toxicity:<br>1 477 mg/kg | >= 1 - <<br>2,5          |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
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

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suitable training.

It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- |                         |   |                                                                                                                                                                                        |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : | If inhaled, remove to fresh air.<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            | : | Induce vomiting immediately and call a physician.<br>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        | : | Carbon oxides                                                             |

### 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 or spray mist.<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

Contains no substances with occupational exposure limit values.

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

| Substance name       | End Use   | Exposure routes | Potential health effects   | Value             |
|----------------------|-----------|-----------------|----------------------------|-------------------|
| benzyltrimethylamine | Workers   | Inhalation      | Long-term systemic effects | 4,9 mg/m3         |
|                      | Workers   | Inhalation      | Acute systemic effects     | 9,9 mg/m3         |
|                      | Workers   | Dermal          | Long-term systemic effects | 1,4 mg/kg bw/day  |
|                      | Workers   | Dermal          | Acute systemic effects     | 2,8 mg/kg bw/day  |
|                      | Consumers | Inhalation      | Long-term systemic effects | 0,87 mg/m3        |
|                      | Consumers | Inhalation      | Acute systemic effects     | 1,74 mg/m3        |
|                      | Consumers | Dermal          | Long-term systemic effects | 0,5 mg/kg bw/day  |
|                      | Consumers | Dermal          | Acute systemic effects     | 1 mg/kg bw/day    |
|                      | Consumers | Oral            | Long-term systemic effects | 0,25 mg/kg bw/day |
|                      | Consumers | Oral            | Acute systemic effects     | 0,5 mg/kg bw/day  |
| dihydro-3-           | Workers   | Dermal          | Long-term systemic         | 0,33 mg/kg        |

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|                                |  |         |        |
|--------------------------------|--|---------|--------|
| (tetrapropenyl)furan-2,5-dione |  | effects | bw/day |
|--------------------------------|--|---------|--------|

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

| Substance name                           | Environmental Compartment  | Value                         |
|------------------------------------------|----------------------------|-------------------------------|
| benzyltrimethylamine                     | Fresh water                | 0,005 mg/l                    |
|                                          | Marine water               | 0 mg/l                        |
|                                          | Sewage treatment plant     | 534 mg/l                      |
|                                          | Fresh water sediment       | 0,071 mg/kg dry weight (d.w.) |
|                                          | Marine sediment            | 0,007 mg/kg dry weight (d.w.) |
|                                          | Soil                       | 0,011 mg/kg dry weight (d.w.) |
| dihydro-3-(tetrapropenyl)furan-2,5-dione | Fresh water                | 0,02 mg/l                     |
|                                          | Remarks:Assessment Factors |                               |
|                                          | Marine water               | 0,002 mg/l                    |
|                                          | Remarks:Assessment Factors |                               |
|                                          | Sewage treatment plant     | 10 mg/l                       |
|                                          | Remarks:Assessment Factors |                               |
|                                          | Fresh water sediment       | 1,7 mg/kg dry weight (d.w.)   |
|                                          | Remarks:Equilibrium method |                               |
|                                          | Marine sediment            | 0,17 mg/kg dry weight (d.w.)  |
|                                          | Remarks:Equilibrium method |                               |
|                                          | Soil                       | 0,2 mg/kg                     |
|                                          | Remarks:Equilibrium method |                               |

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

Material : Ethyl Vinyl Alcohol Laminate (EVAL)  
Break through time : > 8 h

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times,

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

|                          |                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin and body protection | : Impervious clothing<br>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 |
| Filter type              | : Organic vapour type (A)                                                                                                                                                        |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                                                             |
|--------------------------------------------------|-------------------------------------------------------------|
| Physical state                                   | : liquid                                                    |
| Colour                                           | : light yellow                                              |
| Odour                                            | : slight                                                    |
| Odour Threshold                                  | : No data is available on the product itself.               |
| pH                                               | : 4 - 5 (20 °C)<br>Concentration: 500 g/l                   |
| 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                                  | : No data is available on the product itself.               |
| Relative vapour density                          | : No data is available on the product itself.               |
| Relative density                                 | : No data is available on the product itself.               |

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Density : ca. 1 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : practically insoluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

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

Decomposition temperature : > 200 °C

Viscosity  
Viscosity, dynamic : ca. 450 mPa.s (25 °C)

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2 000 mg/kg

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Method: Calculation method

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

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

### **Components:**

#### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

Acute oral toxicity : LD50 (Rat, male): 2 900 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): 5300 mg/m3  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD100 (Rabbit): > 6 200 - < 7 500 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Propane-1,2-diol, propoxylated:**

Acute oral toxicity : LD50 (Rat): > 500 - 2 000 mg/kg  
Acute toxicity estimate: 500,05 mg/kg  
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): > 3 000 mg/kg

#### **benzyl dimethylamine:**

Acute oral toxicity : LD50 (Rat, male): 579 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 2052 mg/m3  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male): ca. 1 477 mg/kg  
Acute toxicity estimate: 1 477 mg/kg  
Method: Calculation method

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### Skin corrosion/irritation

#### Components:

##### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

|            |   |                    |
|------------|---|--------------------|
| Species    | : | Rabbit             |
| Assessment | : | No skin irritation |
| Result     | : | No skin irritation |

##### **Propane-1,2-diol, propoxylated:**

|            |   |                    |
|------------|---|--------------------|
| Species    | : | Rabbit             |
| Assessment | : | No skin irritation |
| Result     | : | slight irritation  |

##### **benzyl dimethylamine:**

|               |   |                         |
|---------------|---|-------------------------|
| Species       | : | Rabbit                  |
| Exposure time | : | 4 h                     |
| Method        | : | OECD Test Guideline 404 |
| Result        | : | Causes burns.           |
| GLP           | : | yes                     |

### Serious eye damage/eye irritation

#### Components:

##### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

|            |   |                     |
|------------|---|---------------------|
| Species    | : | Rabbit              |
| Assessment | : | Irritating to eyes. |
| Result     | : | Eye irritation      |
| GLP        | : | yes                 |

##### **Propane-1,2-diol, propoxylated:**

|            |   |                   |
|------------|---|-------------------|
| Species    | : | Rabbit            |
| Assessment | : | No eye irritation |
| Result     | : | slight irritation |

##### **benzyl dimethylamine:**

|            |   |                       |
|------------|---|-----------------------|
| Species    | : | Rabbit                |
| Assessment | : | Severe eye irritation |
| Result     | : | Severe eye irritation |

### Respiratory or skin sensitisation

#### Components:

##### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

|                 |   |                                                                   |
|-----------------|---|-------------------------------------------------------------------|
| Test Type       | : | Buehler Test                                                      |
| Exposure routes | : | Skin                                                              |
| Species         | : | Guinea pig                                                        |
| Assessment      | : | Probability or evidence of high skin sensitisation rate in humans |
| Method          | : | OECD Test Guideline 406                                           |
| Result          | : | Probability or evidence of high skin sensitisation rate in        |

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GLP : humans  
: no

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

### Propane-1,2-diol, propoxylated:

Exposure routes : Skin  
Species : Humans  
Result : Does not cause skin sensitisation.

### benzyl dimethylamine:

Test Type : Maximisation Test  
Exposure routes : Skin  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

### Germ cell mutagenicity

#### Components:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

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

Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### Propane-1,2-diol, propoxylated:

Genotoxicity in vitro : Metabolic activation: Metabolic activation  
Result: negative

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### benzyl dimethylamine:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: Chromosome aberration test in vitro  
Result: positive  
GLP: yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Somatic  
Application Route: Oral  
Exposure time: 24 h  
Dose: 150 mg/kg  
Result: negative  
GLP: yes

### Carcinogenicity

No data available

### Reproductive toxicity

#### Components:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

Effects on fertility : Test Type: Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 150, 250 mg/kg bw/day  
Duration of Single Treatment: 28 - 54 d  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEL: 50 mg/kg body weight  
General Toxicity F1: NOAEL: 250 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Other

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Dose: 0/50/150/250 mg/kg bw/day  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: NOAEL: > 250 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: No teratogenic effects  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### benzyl dimethylamine:

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Dose: 0,35,75,150 mg/kg bw/d  
Duration of Single Treatment: 14 d  
General Toxicity Maternal: NOAEL: 75 mg/kg body weight  
Developmental Toxicity: NOEL: 150 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
GLP: yes

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

Species : Rat, male and female  
NOAEL : 50 mg/kg  
Application Route : oral (gavage)  
Exposure time : 28 - 54 days  
Number of exposures : daily  
Dose : 50, 150 and 250 mg/kg bw/d  
Method : OECD Test Guideline 421  
GLP : yes

#### Propane-1,2-diol, propoxylated:

Species : Rat  
NOEL : 3 %  
Application Route : Ingestion  
Exposure time : 2 400 h  
Method : Subchronic toxicity

Species : Rat  
NOAEL : 1000 mg/kg/d  
Application Route : Skin contact  
Exposure time : 2 160 h  
Method : Subchronic toxicity

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### benzyl dimethylamine:

|                     |                               |
|---------------------|-------------------------------|
| Species             | : Rat, male and female        |
| NOEL                | : 50 mg/kg                    |
| Application Route   | : oral (gavage)               |
| Exposure time       | : 28 d                        |
| Number of exposures | : 7 d                         |
| Dose                | : 0,50,100,200,400 mg/kg bw/d |
| Method              | : Subacute toxicity           |
| GLP                 | : yes                         |

|                     |                         |
|---------------------|-------------------------|
| Species             | : Rat, male and female  |
| NOAEL               | : ca. 150 mg/kg         |
| Application Route   | : oral (gavage)         |
| Exposure time       | : 28 d                  |
| Number of exposures | : 7 d/w                 |
| Dose                | : 0,6,30,150 mg/kg bw/d |
| Method              | : Subacute toxicity     |
| GLP                 | : yes                   |

### 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

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l |
|                  | End point: mortality                                     |
|                  | Exposure time: 96 h                                      |
|                  | Test Type: static test                                   |

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Analytical monitoring: no  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 160 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 33 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 800 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: OECD Test Guideline 209  
GLP: yes

### Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### Propane-1,2-diol, propoxylated:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC0 (Desmodesmus subspicatus (green algae)): >= 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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Toxicity to microorganisms : EC50 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other : NOEC: >= 10 mg/l  
aquatic invertebrates  
(Chronic toxicity) Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### benzyl dimethylamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 37,8 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): 1,34 mg/l  
plants  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes

EC10 (Desmodesmus subspicatus (green algae)): 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 749,6 mg/l  
Exposure time: 17 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: DIN 38 412 Part 8  
GLP: no

EC10 (Pseudomonas putida): 534 mg/l  
Exposure time: 17 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: DIN 38 412 Part 8  
GLP: no

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,789 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211  
GLP: yes

### Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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

## 12.2 Persistence and degradability

### Components:

#### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 2 mg/l  
Result: Not biodegradable  
Biodegradation: 9,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

Stability in water : Degradation half life (DT50): 44 min (25 °C)  
pH: 7  
Method: OECD Test Guideline 111  
Remarks: Fresh water

#### **benzyl dimethylamine:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 - 2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

## 12.3 Bioaccumulative potential

### Components:

#### **dihydro-3-(tetrapropenyl)furan-2,5-dione:**

Partition coefficient: n-octanol/water : log Pow:  $\geq 4,39$  (22 °C)  
pH: 7  
Method: OECD Test Guideline 107  
GLP: yes

#### **benzyl dimethylamine:**

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Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 42 d  
Bioconcentration factor (BCF): 2,1 - 22  
Test substance: Fresh water  
Method: flow-through test  
Remarks: Bioaccumulation is unlikely.

Species: Cyprinus carpio (Carp)  
Exposure time: 14 d  
Bioconcentration factor (BCF): 2,1 - 6,4  
Test substance: Fresh water  
Method: flow-through test  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,98  
pH: 13

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

### 12.6 Endocrine disrupting properties

#### Product:

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

### 12.7 Other adverse effects

#### Product:

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

## 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.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|        |                                    |
|--------|------------------------------------|
| 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 |

#### 14.2 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

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### 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 (Annex XIV) : Not applicable

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

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) : 84

#### Other regulations:

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

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

DSL : All components of this product are on the Canadian DSL

AIIC : 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), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                           |
|------|-----------------------------------------------------------|
| H226 | : Flammable liquid and vapour.                            |
| H302 | : Harmful if swallowed.                                   |
| H312 | : Harmful in contact with skin.                           |
| H314 | : Causes severe skin burns and eye damage.                |
| H317 | : May cause an allergic skin reaction.                    |
| H318 | : Causes serious eye damage.                              |
| H319 | : Causes serious eye irritation.                          |
| H331 | : Toxic if inhaled.                                       |
| H412 | : Harmful to aquatic life with long lasting effects.      |
| H413 | : May cause long lasting harmful effects to aquatic life. |

### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Acute Tox.      | : Acute toxicity                     |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam.        | : Serious eye damage                 |
| Eye Irrit.      | : Eye irritation                     |
| Flam. Liq.      | : Flammable liquids                  |
| Skin Corr.      | : Skin corrosion                     |
| Skin Sens.      | : Skin sensitisation                 |

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| Skin Sens. 1      | H317 |
| Aquatic Chronic 4 | H413 |

#### Classification procedure:

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

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