

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® AW 116

Version 1.0      Revision Date: 11.09.2018      SDS Number: 400001008140      Date of last issue: -  
Date of first issue: 11.09.2018

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

#### 1.1 Product identifier

Trade name : ARALDITE® AW 116

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

Use of the Substance/Mixture : Epoxy constituents

Recommended restrictions on use : For industrial use only.

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

Company : Huntsman Advanced Materials (Europe)BVBA  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40  
E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Berlin: 0049 30 19 24 0 & 0049 30 30 68 6 7 11  
Bonn: 0049 228 19 27 0 & 0049 228 28 7 3 32 11  
Erfurt: 0049 361 73 07 30  
Freiburg: 0049 761 16 24 0  
Göttingen: 0049 51 19 24 0 & 0049 551 38 31 80  
Homburg: 0049 6841 19 24 0  
Mainz: 0049 6131 19 24 0 & 0049 6131 23 24 66  
München: 0049 89 19 24 0  
Nürnberg: 0049 911 39 8 2 45 1  
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

### 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.

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Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic 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.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

<b>Prevention:</b>	
P201	Obtain special instructions before use.
P261	Avoid breathing mist or vapours.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
<b>Response:</b>	
P391	Collect spillage.

Hazardous components which must be listed on the label:

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

2,3-epoxypropyl o-tolyl ether

Phenol, isopropylated, phosphate (3:1)

**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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 30 - < 50
2,3-Epoxypropyl o-tolyl ether	2210-79-9 218-645-3 603-056-00-X 01-2119966907-18	Skin Irrit. 2; H315 Skin Sens. 1; H317 Muta. 2; H341 Aquatic Chronic 2; H411	>= 10 - < 20
Phenol, isopropylated, phosphate (3:1)	68937-41-7 273-066-3 01-2119535109-41	Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 2; H411	>= 3 - < 10
Triphenyl phosphate	115-86-6 204-112-2 01-2119457432-41	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,25 - < 1

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 Epichlorhydrin

### 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.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
Keep respiratory tract clear.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

None known.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

**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  
Halogenated compounds

**5.3 Advice for firefighters**

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

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.  
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).  
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 : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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. Observe label precautions. Keep in properly labelled containers.

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

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : Stable under normal conditions.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Polypropylene	9003-07-0	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Phenol, isopropylated, phosphate (3:1)	68937-41-7	AGW (Inhalable fraction)	1 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

##### 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	Dermal	Systemic effects, Short-term exposure	8,33 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Short-term exposure	12,25 mg/m <sup>3</sup>
	Workers	Dermal	Systemic effects, Long-term exposure	8,33 mg/kg bw/day

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	Workers	Inhalation	Systemic effects, Long-term exposure	12,25 mg/m <sup>3</sup>
	Consumers	Dermal	Systemic effects, Short-term exposure	3,571 mg/kg bw/day
	Consumers	Oral	Systemic effects, Short-term exposure	0,75 mg/kg bw/day
	Consumers	Dermal	Systemic effects, Long-term exposure	3,571 mg/kg bw/day
	Consumers	Oral	Systemic effects, Long-term exposure	0,75 mg/kg bw/day
2,3-epoxypropyl o-tolyl ether	Workers	Inhalation	Long-term systemic effects	0,46 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	40 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,46 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	40 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,139 mg/kg
	Consumers	Oral	Long-term systemic effects	0,14 mg/kg
Phenol, isopropylated, phosphate (3:1)	Workers	Dermal	Systemic effects	
	Workers	Inhalation	Systemic effects	20,1 mg/m <sup>3</sup>
	Workers	Dermal	Local effects	
	Workers	Dermal	Systemic effects	
	Workers	Inhalation	Systemic effects	0,29 mg/m <sup>3</sup>
	Consumers	Dermal	Systemic effects	
	Consumers	Inhalation	Systemic effects	5 mg/m <sup>3</sup>
	Consumers	Oral	Systemic effects	
	Consumers	Dermal	Local effects	
	Consumers	Dermal	Systemic effects	
	Consumers	Inhalation	Systemic effects	0,07 mg/m <sup>3</sup>
	Consumers	Oral	Systemic effects	

**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
Remarks:	Assessment Factors	
	Marine water	0,0006 mg/l
	Assessment Factors	

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	Freshwater - intermittent	0,018 mg/l
Assessment Factors		
	Fresh water sediment	0,996 mg/kg
Equilibrium method		
	Marine sediment	0,0996 mg/kg
Equilibrium method		
	Soil	0,196 mg/kg
Equilibrium method		
	Sewage treatment plant	10 mg/l
Assessment Factors		
	Secondary Poisoning	11 mg/kg
2,3-epoxypropyl o-tolyl ether	Fresh water	2,8 µg/l
Assessment Factors		
	Marine water	0,28 µg/l
Assessment Factors		
	Freshwater - intermittent	28 µg/l
Assessment Factors		
	Sewage treatment plant	10 mg/l
Assessment Factors		
	Fresh water sediment	0,039 mg/kg
Assessment Factors		
	Marine sediment	0,0039 mg/kg
	Soil	0,012 mg/kg
Assessment Factors		
Phenol, isopropylated, phosphate (3:1)	Fresh water	0,0015 mg/l
	Marine water	0,00015 mg/l
	Freshwater - intermittent	0,015 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	112 mg/kg
	Marine sediment	11,2 mg/kg
	Soil	0,1 mg/kg
	Secondary Poisoning	0,83 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water



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Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Remarks : 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 : In the case of vapour formation use a respirator with an approved filter.

**SECTION 9: Physical and chemical properties**

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

Appearance : paste

Colour : beige

Odour : aromatic

Odour Threshold : No data is available on the product itself.

pH : ca. 7 - 8 (20 °C)  
Method: estimated  
neutral

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : > 200 °C  
Method: Information given is based on data obtained from similar substances.

Flash point : > 200 °C  
Method: Pensky-Martens closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Burning rate : 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.

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Vapour pressure : < 0,01 hPa (20 °C)  
Method: Information given is based on data obtained from similar substances.

Relative vapour density : No data is available on the product itself.

Relative density : 1,1 (20 °C)

Density : 1,1 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Solubility(ies)  
Water solubility : insoluble (20 °C)  
Method: Information given is based on data obtained from similar substances.

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 : > 400 °C  
Method: DIN Method, other

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

Viscosity  
Viscosity, dynamic : 15 000 - 35 000 mPa.s (25 °C)  
Method: Other guidelines

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

**9.2 Other information**

No data available

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**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 : Exothermic reaction with strong acids.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

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### 10.5 Incompatible materials

Materials to avoid : Strong acids

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide  
Halogenated compounds

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### 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

2,3-epoxypropyl o-tolyl ether:

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

Phenol, isopropylated, phosphate (3:1):

Acute oral toxicity : LD50 (Rat): > 5 000 mg/kg  
Assessment: The component/mixture is low toxic after single ingestion.

triphenyl phosphate:

Acute oral toxicity : LD50 (Mouse): > 5 000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

##### Components:

2,3-epoxypropyl o-tolyl ether:

Acute inhalation toxicity : LC50 (Rat, male and female): > 6100 ppb  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Phenol, isopropylated, phosphate (3:1):

Acute inhalation toxicity : LC50 (Rat, male and female): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist

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### Components:

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

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

Phenol, isopropylated, phosphate (3:1):

Acute dermal toxicity : LD50 (Rabbit): > 10 000 mg/kg

triphenyl phosphate:

Acute dermal toxicity : LD50 (Rabbit): > 7 900 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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

### **Skin corrosion/irritation**

#### Components:

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

Species: Rabbit  
Assessment: Mild skin irritant  
Method: OECD Test Guideline 404  
Result: Irritating to skin.

2,3-epoxypropyl o-tolyl ether:

Assessment: Irritating to skin.  
Result: Severe skin irritation

Phenol, isopropylated, phosphate (3:1):

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

triphenyl phosphate:

Species: Rabbit  
Exposure time: 4 h  
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: Mild eye irritant  
Method: OECD Test Guideline 405

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Result: Irritating to eyes.

2,3-epoxypropyl o-tolyl ether:

Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: Normally reversible injuries

Phenol, isopropylated, phosphate (3:1):

Species: Rabbit

Result: No eye irritation

triphenyl phosphate:

Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

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

Exposure routes: Skin

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Result: Causes sensitisation.

2,3-epoxypropyl o-tolyl ether:

Exposure routes: Skin

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

triphenyl phosphate:

Test Type: Maximisation Test

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

#### Components:

triphenyl phosphate:

Assessment:

No skin irritation, No eye irritation

Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Components:

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

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

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: Concentration: 0 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

2,3-epoxypropyl o-tolyl ether:  
Genotoxicity in vitro

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

Phenol, isopropylated, phosphate (3:1):  
Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

triphenyl phosphate:  
Genotoxicity in vitro

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

: Test Type: unscheduled DNA synthesis assay  
Method: OECD Test Guideline 482  
Result: negative

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

### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:  
Genotoxicity in vivo

: Cell type: Germ  
Application Route: Oral  
Method: OECD Test Guideline 478  
Result: negative

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Cell type: Somatic  
Application Route: Oral  
Dose: 0 - 5000 mg/kg  
Method: OPPTS 870.5395  
Result: negative

2,3-epoxypropyl o-tolyl ether:  
Genotoxicity in vivo

: Application Route: Oral  
Dose: 2000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

Application Route: Dermal  
Exposure time: 5 d  
Dose: 500 mg/kg  
Result: negative

Application Route: Dermal  
Exposure time: 8 Weeks  
Dose: 1.5 mg/kg  
Method: OECD Test Guideline 478  
Result: positive

Phenol, isopropylated, phosphate (3:1):  
Genotoxicity in vivo

: Application Route: Oral  
Method: OECD Test Guideline 475  
Result: negative

Cell type: Somatic  
Application Route: Oral  
Result: negative

### **Components:**

2,3-epoxypropyl o-tolyl ether:  
Germ cell mutagenicity-  
Assessment

: Positive results from in vitro mammalian mutagenicity assays, chemical structure activity relationship to known germ cell mutagen

triphenyl phosphate:  
Germ cell mutagenicity-  
Assessment

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Germ cell mutagenicity-  
Assessment

: No data available

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according to Regulation (EC) No. 1907/2006

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### Carcinogenicity

#### Components:

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

Species: Rat, male and female

Application Route: Oral

Exposure time: 24 month(s)

Dose: 15 mg/kg

Frequency of Treatment: 7 days/week

Method: OECD Test Guideline 453

Result: negative

Species: Mouse, male

Application Route: Dermal

Exposure time: 24 month(s)

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week

Method: OECD Test Guideline 453

Result: negative

Species: Rat, female

Application Route: Dermal

Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week

Method: OECD Test Guideline 453

Result: negative

Carcinogenicity - Assessment : No data available

### 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: >750 milligram per kilogram

General Toxicity - Parent: No-observed-effect level: 540 mg/kg body weight

General Toxicity F1: No-observed-effect level: 540 mg/kg body weight

Symptoms: No adverse effects

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic development were detected.

Phenol, isopropylated, phosphate (3:1):

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 421

triphenyl phosphate:

Species: Rat, male and female



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Application Route: Oral  
Dose: 166, 341, 516, 690 mg/kg  
General Toxicity - Parent: No-observed-effect level: 690 mg/kg body weight  
Method: OECD Test Guideline 415  
Result: Animal testing did not show any effects on fertility.

### Components:

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

Effects on foetal development : Species: Rabbit, female  
Application Route: Dermal  
General Toxicity Maternal: No observed adverse effect level: 30 mg/kg body weight  
Method: Other guidelines  
Result: No teratogenic effects

Species: Rabbit, female  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 60 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 180 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Phenol, isopropylated, phosphate (3:1):

Species: Rat  
Application Route: Oral  
Dose: 0, 100, 200, and 400 mg/kg/da  
General Toxicity Maternal: No observed adverse effect level: 200 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level: 400 mg/kg body weight  
Method: OECD Test Guideline 414

triphenyl phosphate:

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: > 690 mg/kg body weight  
Teratogenicity: No observed adverse effect level: > 690 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

### Components:

Phenol, isopropylated, phosphate (3:1):

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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triphenyl phosphate:  
Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

### STOT - single exposure

No data available

### STOT - repeated exposure

#### Components:

Phenol, isopropylated, phosphate (3:1):

Exposure routes: Ingestion

Target Organs: Adrenal gland

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

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

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 14 Weeks Number of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

NOEL: 10 mg/kg

Application Route: Skin contact

Exposure time: 13 Weeks Number of exposures: 5 d

Method: Subchronic toxicity

Species: Mouse, male

NOAEL: 100 mg/kg

Application Route: Skin contact

Exposure time: 13 Weeks Number of exposures: 3 d

Method: Subchronic toxicity

2,3-epoxypropyl o-tolyl ether:

Species: Rat, male and female

NOEC: > 4

Test atmosphere: vapour

Exposure time: 4 Weeks Number of exposures: 6 h

Method: OECD Test Guideline 412

Phenol, isopropylated, phosphate (3:1):

Species: Rat, male and female

NOEC: < 25 mg/kg

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 672 h Number of exposures: 7 d

Method: Subacute toxicity

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triphenyl phosphate:  
Species: Rat, male and female  
NOAEL: 105 - 117 mg/kg  
Application Route: oral (feed)  
Method: OECD Test Guideline 408  
Target Organs: Liver

### **Components:**

triphenyl phosphate:  
Repeated dose toxicity - Assessment : No skin irritation, No eye irritation  
No adverse effect has been observed in chronic toxicity tests.

### **Aspiration toxicity**

No data available

### **Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

### **Toxicology, Metabolism, Distribution**

No data available

### **Neurological effects**

No data available

### **Further information**

Ingestion: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9,4 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 aquatic invertebrates (Chronic toxicity) : NOEC: 0,3 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

2,3-epoxypropyl o-tolyl ether:

Toxicity to fish : LC50 : 13 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,8 - 5,1 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

LC50 (Brachydanio rerio (zebrafish)): ca. 6,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): ca. 3,3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 5,1 mg/l  
Exposure time: 72 h

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Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 : > 100 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209

Phenol, isopropylated, phosphate (3:1):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,15 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

LC50 (Pimephales promelas (fathead minnow)): 10,8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,44 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 2,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209

triphenyl phosphate:

Toxicity to fish : LC50 : 0,36 - 0,85 mg/l  
Exposure time: 96 h  
Remarks: Toxic to fish.

Toxicity to daphnia and other aquatic invertebrates : EC50 : 1,35 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC : 0,25 - 2,5 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic) : Lowest Observed Effect Concentration: 0,055 mg/l

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toxicity) Exposure time: 30 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,254 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

Lowest Observed Effect Concentration: 0,931 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

Ecotoxicology Assessment  
Acute aquatic toxicity : Very toxic to aquatic life.

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

### 12.2 Persistence and degradability

#### Components:

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

Biodegradability : Inoculum: Sewage (STP effluent)  
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

2,3-epoxypropyl o-tolyl ether:

Biodegradability : Inoculum: activated sludge  
Concentration: 10 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 17 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

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Stability in water : Degradation half life (DT50): 10,5 hrs (25 °C)  
pH: 4  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 9,4 hrs (25 °C)  
pH: 7  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 8,96 hrs (25 °C)  
pH: 9  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Phenol, isopropylated, phosphate (3:1):

Biodegradability : Inoculum: activated sludge  
Concentration: 2,1 mg/l  
Result: Not biodegradable  
Biodegradation: 17,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Stability in water : Degradation half life (DT50): 18,5 d (25 °C)  
pH: 7  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 6,05 d (25 °C)  
pH: 9  
Method: OECD Test Guideline 111  
Remarks: Fresh water

triphenyl phosphate:

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

### 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  
Method: OECD Test Guideline 117

2,3-epoxypropyl o-tolyl ether:

Partition coefficient: n-octanol/water : log Pow: 2,5 (21 °C)  
Method: OECD Test Guideline 107

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Phenol, isopropylated, phosphate (3:1):  
Partition coefficient: n-octanol/water : log Pow: 4,9 - 5,2

triphenyl phosphate:  
Bioaccumulation : Bioconcentration factor (BCF): 132

Partition coefficient: n-octanol/water : log Pow: 4,59 - 4,76

### 12.4 Mobility in soil

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:  
Distribution among environmental compartments : Koc: 445

2,3-epoxypropyl o-tolyl ether:  
Distribution among environmental compartments : Koc: ca. 210  
Method: OECD Test Guideline 121

Phenol, isopropylated, phosphate (3:1):  
Distribution among environmental compartments : Koc: 2704 - 8769  
Method: OECD Test Guideline 121

triphenyl phosphate:  
Distribution among environmental compartments : Koc: 2514 - 5500

### 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 Other adverse effects

#### Product:

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.



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Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

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

### SECTION 14: Transport information

#### IATA

**14.1 UN number** : UN 3082  
**14.2 UN proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
(BISPHENOL A EPOXY RESIN)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

#### IMDG

**14.1 UN number** : UN 3082  
**14.2 UN proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BISPHENOL A EPOXY RESIN)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
Labels : 9  
EmS Code : F-A, S-F  
**14.5 Environmental hazards**  
Marine pollutant : yes

#### ADR

**14.1 UN number** : UN 3082  
**14.2 UN proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BISPHENOL A EPOXY RESIN)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
Labels : 9  
**14.5 Environmental hazards**  
Environmentally hazardous : yes

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### RID

**14.1 UN number** : UN 3082  
**14.2 UN proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)  
**14.3 Transport hazard class(es)** : 9  
**14.4 Packing group** : III  
Labels : 9  
**14.5 Environmental hazards**  
Environmentally hazardous : yes

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Water contaminating class (Germany) : WGK 3 highly hazardous to water

TA Luft List (Germany) : Total dust:  
Not applicable  
: Inorganic substances in powdered form:  
Not applicable  
: Inorganic substances in vapour or gaseous form:  
Not applicable  
: Organic Substances:  
Not applicable  
: Carcinogenic substances:  
Not applicable  
: Mutagenic:  
Not applicable  
: Toxic to reproduction:  
Not applicable

#### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national

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regulations, where applicable.

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

DSL : This product contains one or several components listed in the Canadian NDSL.

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

NZIoC : Not 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

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

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

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

**Inventories**

AICS (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.  
H341 : Suspected of causing genetic defects.  
H361 : Suspected of damaging fertility or the unborn child.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 : Very toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW	: Time Weighted Average

### Further information

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Muta. 2	H341
Repr. 2	H361
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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