according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : ARALDITE® 2012 RESIN

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

Use of the : Adhesives

Substance/Mixture

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 : Servicio de Información Toxicológica:+ 34 91 562 04 20

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.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms :





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

P280 Wear protective gloves.

P280 Wear eye protection/ face protection.
P273 Avoid release to the environment.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

Disposal:

P501 Dispose of contents and container in

accordance with all local, regional, national

and international regulations.

Hazardous components which must be listed on the label:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

1,4-bis(2,3-epoxypropoxy)butane

#### **Additional Labelling:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 4,718 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 4,718 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 4,718 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 4,718 %

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#### 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.

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concent ration (% w/w)
Reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700)	25068-38-6 500-033-5 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	60 - 100
1,4-Bis(2,3- epoxypropoxy)butane	2425-79-8 219-371-7 01-2119494060-45	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	3 - 7

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.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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Obtain medical attention.

# 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

# **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

: No data is available on the product itself.

# 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

: No data is available on the product itself.

# 5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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.

# **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

#### 6.2 Environmental precautions

**Environmental precautions** : Do not flush into surface water or sanitary sewer system.

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

according to Regulation (EC) No. 1907/2006



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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

None

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Persons with a history of 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.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. 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.

Advice on common storage : Strong acids

Strong bases

Strong oxidizing agents

Storage class (TRGS 510) : 10, Combustible liquids

Recommended storage

temperature

: 2 - 40 °C

Other data : No decomposition if stored and applied as directed.

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# 7.3 Specific end use(s)

# **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
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Workers	Dermal	Systemic effects, Short-term exposure	8,33 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Short-term exposure	12,25 mg/m3
	Workers	Dermal	Systemic effects, Long-term exposure	8,33 mg/kg bw/day
	Workers	Inhalation	Systemic effects, Long-term exposure	12,25 mg/m3
	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

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

Substance name		Environmental Compartment	Value
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)		Fresh water	0,006 mg/l
Remarks:	Assessment Factors		
		Marine water	0,0006 mg/l
	Assessment Factors		
		Freshwater - intermittent	0,018 mg/l
Assessment Factors			
·		Fresh water sediment	0,996 mg/kg
Equilibrium method			
		Marine sediment	0,0996 mg/kg

according to Regulation (EC) No. 1907/2006



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Equilibriun	Equilibrium method		
	Soil	0,196 mg/kg	
Equilibriun	Equilibrium method		
	Sewage treatment plant	10 mg/l	
Assessme	Assessment Factors		
	Secondary Poisoning	11 mg/kg	

# 8.2 Exposure controls

#### Personal protective equipment

: Eye wash bottle with pure water Eye protection

Tightly fitting safety goggles

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)

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

Material : Neoprene gloves

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected

> protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

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** : liquid

Colour : light yellow

Odour : slight

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

: 6 (20 °C) pΗ

Concentration: 500 g/l

according to Regulation (EC) No. 1907/2006



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

Melting point No data is available on the product itself.

Boiling point : > 200 °C

Flash point : > 200 °C

Method: Pensky-Martens closed cup, 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 : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapour pressure : < 0,002 hPa (20 °C)

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

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

Density : 1,17 g/cm3 (25 °C)

Solubility(ies)

Water solubility : practically insoluble (20 °C)

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

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

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

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 25.000 - 45.000 mPa.s (25 °C)

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

Stable under recommended storage conditions.

# 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No decomposition if used as directed.

# 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

#### 10.6 Hazardous decomposition products

Carbon oxides

Burning produces noxious and toxic fumes.

#### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

#### Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

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

# 1,4-bis(2,3-epoxypropoxy)butane:

Acute oral toxicity : LD50 (Rat, male and female): 1.163 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity -

: Acute toxicity estimate : > 20 mg/l

Product

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

#### **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

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Assessment: The substance or mixture has no acute dermal

toxicity

1,4-bis(2,3-epoxypropoxy)butane:

Acute dermal toxicity : LD50 (Rat, male and female): > 2.150 mg/kg

Assessment: The component/mixture is moderately toxic after

single contact with skin.

Acute toxicity (other routes of : No data available

administration)

#### Skin corrosion/irritation

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

# Serious eye damage/eye irritation

#### **Product:**

Species: Not Assigned

Assessment: May cause eye and skin irritation.

Method: OECD Test Guideline 437 Result: May cause eye and skin irritation.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

# Respiratory or skin sensitisation

#### **Product:**

Remarks: Causes sensitisation.

Assessment: No data available

# Germ cell mutagenicity

#### **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

: Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

1,4-bis(2,3-epoxypropoxy)butane:

Genotoxicity in vitro : Concentration: 10 - 5000 ug/plate

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

: Concentration: 1 - 100 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

# **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Genotoxicity in vivo : Cell type: Germ

Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

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

Result: negative

1,4-bis(2,3-epoxypropoxy)butane:

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse Cell type: Somatic Application Route: Oral Exposure time: 4 d Dose: 187.5 - 750 mg/kg

Method: OECD Test Guideline 474

Result: negative

Test Type: unscheduled DNA synthesis assay

Test species: Rat Cell type: Liver cells Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

# **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Germ cell mutagenicity- : Weight of evidence does not support classification as a germ

Assessment cell mutagen.

1,4-bis(2,3-epoxypropoxy)butane:

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Germ cell mutagenicity-

Assessment

: Weight of evidence does not support classification as a germ

cell mutagen.

Germ cell mutagenicity-

Assessment

: No data available

# Carcinogenicity

#### Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

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 - : No data available

Assessment

# Reproductive toxicity

## **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

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

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Result: No effects on fertility and early embryonic

development were detected.

# **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Effects on foetal : Species: Rabbit, female development : 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

Reproductive toxicity -

Assessment

: No data available

# STOT - single exposure

No data available

# STOT - repeated exposure

No data available

# Repeated dose toxicity

# Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 14 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

NOEL: 10 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 5 d

Method: Subchronic toxicity

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Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 3 d

Method: Subchronic toxicity

1,4-bis(2,3-epoxypropoxy)butane: Species: Rat, male and female

NOAEL: 200 mg/kg

**Application Route: Ingestion** 

Exposure time: 28 dNumber of exposures: 7 d

Method: Subacute toxicity

Repeated dose toxicity -

Assessment

: No data available

# **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**

### **Product:**

Remarks: No data available

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

# **Product:**

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 4,718 %

#### **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

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

1,4-bis(2,3-epoxypropoxy)butane:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 24 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)): 75 mg/l

Exposure time: 24 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

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Toxicity to algae : EL50 : > 160 mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 209

# 12.2 Persistence and degradability

#### **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

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: 4Method: OECD Test Guideline 111

Remarks: Fresh water

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

Remarks: Fresh water

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

Remarks: Fresh water

1,4-bis(2,3-epoxypropoxy)butane:

Biodegradability : Inoculum: activated sludge

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 43 % Exposure time: 28 d

Method: OECD Test Guideline 301F

# 12.3 Bioaccumulative potential

#### Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 3,242 (25 °C)

octanol/water pH: 7,1

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Method: OECD Test Guideline 117

1,4-bis(2,3-epoxypropoxy)butane:

Partition coefficient: n- : log Pow: -0,269 (25 °C)

octanol/water pH: 6,7

Method: OECD Test Guideline 117

# 12.4 Mobility in soil

# **Components:**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700):

Distribution among : Koc: 445

environmental compartments

1,4-bis(2,3-epoxypropoxy)butane:

Distribution among : Koc: 12,59Method: OECD Test Guideline 121

environmental compartments

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

#### 12.6 Other adverse effects

#### Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

# **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.

Offer surplus and non-recyclable solutions to a licensed

disposal company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

# **SECTION 14: Transport information**

according to Regulation (EC) No. 1907/2006



# **ARALDITE® 2012 RESIN**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03.08.2015

 1.2
 18.11.2016
 400001008017
 Date of first issue: 28.05.2015

**IATA** 

**14.1 UN number** : UN 3082

**14.2 UN proper shipping** : Environmentally hazardous substance, liquid, n.o.s.

964

name

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard : 9

class(es)

14.4 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

**IMDG** 

**14.1 UN number** : UN 3082

**14.2 UN proper shipping** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

14.4 Packing group: IIILabels: 9EmS Code: F-A, S-F

14.5 Environmental hazards

Marine pollutant : yes

**ADR** 

**14.1 UN number** : UN 3082

**14.2 UN proper shipping** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

me N.O.S.

(BISPHENOL A EPOXY RESIN)

: 9

: 9

**14.3 Transport hazard** : 9

class(es)

**14.4 Packing group** : III Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

RID

**14.1 UN number** : UN 3082

**14.2 UN proper shipping** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

**14.4 Packing group** : III Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

according to Regulation (EC) No. 1907/2006



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# 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 : Not applicable

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

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

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

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

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

NZIoC : not determined

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

#### **Inventories**

AICS (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

#### **SECTION 16: Other information**

# **Full text of H-Statements**

H302 : Harmful if swallowed.

according to Regulation (EC) No. 1907/2006



# **ARALDITE® 2012 RESIN**

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H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

#### **Further information**

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