

Trade name: SCANDIPLEX A

Current version : 2.0.2, issued: 29.01.2019

Replaced version: 2.0.1, issued: 07.05.2018

Region: GB

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Materialographic embeddings

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**SCAN-DIA GmbH  
Luetkenheider Strasse 11  
58099 Hagen  
Germany

Telephone no. +49 (0) -2331-62469-0

Fax no. +49 (0) -2331-62469-29

e-mail info@scan-dia.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Muta. 2; H341

Skin Irrit. 2; H315

Skin Sens. 1; H317

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08



GHS09

**Signal word**

Warning

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**Hazardous component(s) to be indicated on label:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)  
2,3-epoxypropyl o-tolyl ether

**Hazard statement(s)**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects  
H411 Toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Precautionary statement(s)**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash with water and soap thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

No data available.

## SECTION 3: Composition/information on ingredients

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <math>\leq</math> 700)</b>			
	25068-38-6 500-033-5 603-074-00-8 01-2119456619-26	Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	> 70.00 - < 90.00	%-b.w.
2	<b>2,3-epoxypropyl o-tolyl ether</b>			
	2210-79-9 218-645-3 603-056-00-X -	Aquatic Chronic 2; H411 Muta. 2; H341 Skin Irrit. 2; H315 Skin Sens. 1; H317	> 10.00 - < 30.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C $\geq$ 5% Skin Irrit. 2; H315: C $\geq$ 5%	-	-
2	C	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information**

If the patient is likely to become unconscious, place and transport in stable sideways position.

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**After inhalation**

Ensure supply of fresh air. Call a doctor immediately. Remove affected person from the immediate area. Breathing with the help of a ventilator bag or ventilator.

**After skin contact**

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Do not induce vomiting - aspiration hazard. Drink water in small gulps. If individual is drowsy or unconscious, place in recovery position (on left side, with head down). Call a doctor immediately.

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

In some cases intoxication symptoms may only occur after a long time / several hours.

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

No data available.

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

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: not combusted hydrocarbons (fumes); Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Toxic pyrolysis products

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. chemical resistant protective clothing should be worn. Run-off water from fire fighting must not be discharged into drains or enter surface water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Ensure adequate ventilation. Keep away sources of ignition. Avoid contact with skin, eyes and clothing. Do not inhale vapours.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

**6.3 Methods and material for containment and cleaning up**

Stop leak if safe to do so. Prevent spread over a wide area (by containment with sand or earth). Pick up with absorbent material (e.g., general-purpose binder). Dispose of absorbed material in accordance with the regulations.

**6.4 Reference to other sections**

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid formation of aerosols. Open and handle container with care.

#### General protective and hygiene measures

Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

#### Advice on protection against fire and explosion

Take precautionary measures against static charges.

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

#### Technical measures and storage conditions

Protect from heat and direct sunlight. Storage: cool and dry

#### Recommended storage temperature

Value 2 - 40 °C

#### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed.

#### Advice on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ )			25068-38-6 500-033-5	
	dermal	Long term (chronic)	systemic	8.33	mg/kg/day
	dermal	Short term (acut)	systemic	8.33	mg/kg/day
	inhalative	Long term (chronic)	systemic	12.25	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	12.25	mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ )			25068-38-6 500-033-5	
	oral	Long term (chronic)	systemic	0.75	mg/kg/day
	oral	Short term (acut)	systemic	0.75	mg/kg/day
	dermal	Long term (chronic)	systemic	3.571	mg/kg/day
	dermal	Short term (acut)	systemic	3.571	mg/kg/day

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## PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)		25068-38-6 500-033-5	
	water	fresh water	0.006	mg/L
	water	marine water	0.0006	mg/L
	water	Aqua intermittent	0.018	mg/L
	water	fresh water sediment	0.996	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.0996	mg/kg
	with reference to: dry weight			
	soil	-	0.196	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	11	mg/kg
	with reference to: food			

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

### Personal protective equipment

#### Respiratory protection

If ventilation insufficient, use a respiratory protection apparatus. Short term: filter apparatus, Filter A/P2

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Use protective gloves. Besides the suitable material, the choice of protective gloves depends additionally on quality criteria which may vary from one manufacturer to the other.

Appropriate Material	nitrile			
Breakthrough time	10	-	480	min
Appropriate Material	neoprene			
Appropriate Material	butyl rubber			
Breakthrough time	>		480	min

#### Other

Check suitability of protective clothing for the specific workplace conditions. Chemical resistance of the protective equipment should be discussed with the manufacturer of the protective equipment.

#### Environmental exposure controls

Do not empty into drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
colourless	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Comments	neutral
<b>Boiling point / boiling range</b>	
Value	> 200 °C

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<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	138	°C	
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
Value	1	Pa	
Reference temperature	20	°C	
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1.5	g/ml	
Reference temperature	20	°C	
<b>Solubility in water</b>			
Comments	insoluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
log Pow	>=	2.981	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
<b>Viscosity</b>			
Value	500 - 650	Pa*s	
Reference temperature	25	°C	

## 9.2 Other information

<b>Other information</b>
No data available.

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable if stored and handled properly.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Temperatures &gt; 200 °C. Temperatures which lead to decomposition. Static discharges.

**10.5 Incompatible materials**

Product reacts with: strong oxidizing agents; strong bases; Oxidizing agents

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 420		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
Duration of exposure		72	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
LC50		3.6	mg/l
Duration of exposure		96	h
Species		Salmo gairdneri	
Method		OECD 203	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
EC50		1.1	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
NOEC		0.3	mg/l
Duration of exposure		21	day(s)
Species		Daphnia magna	
Method		OECD 211	
Source		ECHA	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
EC50		9.4	mg/l
Duration of exposure		72	h
Species		Scenedesmus capricornutum	
Method		EPA-660/3-75-009	
Source		ECHA	

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5
log Pow		≥	2.981
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	

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## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

### Other information

Do not discharge product unmonitored into the environment.

Do not allow to enter soil, waterways or waste water canal.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Remove in accordance with local official regulations.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Completely discharge containers. Do not reuse product container.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700) 2,3-epoxypropyl o-tolyl ether
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700) 2,3-epoxypropyl o-tolyl ether
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

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### 14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
	2,3-epoxypropyl o-tolyl ether
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

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

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2
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#### **Other regulations**

Observe employment restrictions for young people.  
Observe employment restrictions for child bearing mothers and nursing mothers.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

