

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

- **1.1 Product identifier**
- **Creation date version 1** 11.08.2005
- **Trade name** NEUKADUR VG Alu
- **Article number:** E1094
- **Utilization of the substance of the formulation:** Epoxiresin for the production of duromere
- **UFI:** 5NGJ-Q44K-500T-W8Y2
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application for the substance / the preparation** Epoxiresin for the production of duromere
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Suter Kunststoffe AG  
Aefligenstrasse 3  
3312 Fraubrunnen  
Tel. +41 (0)31 763 60 60  
Fax. +41 (0)31 763 60 61  
e-mail: info@swiss-composite.ch
- **Further information obtainable from:** Sales Team
- **1.4 Emergency telephone number:**  
Tox Info Suisse phone : 145  
International: +41 (0)44 251 51 51

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Muta. 2                      H341 Suspected of causing genetic defects.



GHS09 environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2                      H315 Causes skin irritation.  
 Eye Irrit. 2                      H319 Causes serious eye irritation.  
 Skin Sens. 1                      H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** Warning

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## Trade name NEUKADUR VG Alu

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· **Hazard-determining components of labelling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane

N,N - Bis(2,3-epoxypropyl)anilin

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients**· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 1675-54-3 EINECS: 216-823-5	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	≥10-<25%
CAS: 933999-84-9 EC number: 618-939-5	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥5-<10%
CAS: 2095-06-9	N,N - Bis(2,3-epoxypropyl)anilin ⚠ Muta. 2, H341; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	5-10%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures**· **4.1 Description of first aid measures**· **General information:** Immediately remove any clothing soiled by the product.· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:**
  - Do not induce vomiting; call for medical help immediately.*
  - A person vomiting while laying on their back should be turned onto their side.*
  - Rinse out mouth and then drink plenty of water.*
  - If symptoms persist consult doctor.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:*
    - Carbon monoxide (CO)*
    - carbon dioxide*
    - Nitrogen oxides (NO<sub>x</sub>)*
    - Hydrogen chloride (HCl)*
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.*
  - Wear fully protective suit.*
- **Additional information**
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.*

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Keep away from ignition sources.*
  - Wear protective clothing.*
  - Wear protective equipment. Keep unprotected people away.*
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.*
  - Do not allow to penetrate the ground/soil.*
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
  - Dispose contaminated material as waste according to section 13.*
  - Ensure adequate ventilation.*
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.*
  - See Section 8 for information on personal protection equipment.*
  - See Section 13 for disposal information.*

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
  - Keep receptacles tightly sealed.*
  - Ensure that suitable extractors are available on processing machines*
  - Take care by opening*
  - Ensure good ventilation/exhaustion at the workplace.*
  - Prevent formation of aerosols.*

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- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Prevent any seepage into the ground.  
Keep container tightly closed and dry and storage in a good ventilated room.
  
- Storage temperature: 20 - 25 °C.
- **Information about storage in one common storage facility:**  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Protect from frost.  
Protect from humidity and water.  
Keep container tightly sealed.
- **Storage class:** 10
- **7.3 Denomination of Origin** Made in Germany
- **Processing information** Homogenize content before use
- **General remark** For processing instructions see data sheet

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs****1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral	DNEL Acute - systemic effects	0.5 mg/kg bw/day (General population)
Dermal	DNEL Long-term - systemic effects	0.0893 mg/kg bw/day (General population) 0.75 mg/kg bw/day (workers)
Inhalative	DNEL Long-term - systemic effects	0.87 mg/m <sup>3</sup> (General population) 4.93 mg/m <sup>3</sup> (workers)
	DNEL Long-term exposure - systemic effects	12.25 mg/m <sup>3</sup> (workers)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)**

Oral	DNEL Long-term - systemic effects	1.5 mg/kg (General population)
	DNEL Acute - systemic effects	1.5 mg/kg (General population)
Dermal	DNEL Acute - local effects	0.0136 mg/cm <sup>2</sup> (General population) 0.0226 mg/cm <sup>2</sup> (workers)
	DNEL Long term - local effects	0.0136 mg/cm <sup>2</sup> (General population) 0.0226 mg/cm <sup>2</sup> (workers)
	DNEL Acute - systemic effects	1.7 mg/kg (General population)
	DNEL Long-term - systemic effects	3 mg/kg (General population) 6 mg/kg (workers)
Inhalative	DNEL Acute - systemic effects	5.29 mg/m <sup>3</sup> (General population) 10.57 mg/m <sup>3</sup> (workers)
	DNEL Long-term - systemic effects	5.29 mg/m <sup>3</sup> (General population) 10.57 mg/m <sup>3</sup> (workers)
	DNEL Long-term - local effects	0.27 mg/m <sup>3</sup> (General population)

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		0.44 mg/m <sup>3</sup> (workers)
<b>2095-06-9 N,N - Bis(2,3-epoxypropyl)anilin</b>		
Oral	DNEL systemic effects - long term exposure	0.167 mg/kg bw/d (General population)
	DNEL systemic effects - short term	0.167 mg/kg bw/day (General population)
Dermal	DNEL systemic effects - long term exposure	0.167 mg/kg bw/d (General population)
	DNEL Long-term - systemic effects	0.33 mg/kg bw/day (workers)
	DNEL systemic effects - short term	0.167 mg/kg bw/day (General population)
Inhalative		0.33 mg/kg bw/day (workers)
	DNEL systemic effects - long term exposure	0.59 mg/m <sup>3</sup> (General population)
	DNEL Long-term - systemic effects	1.17 mg/m <sup>3</sup> (workers)
	DNEL systemic effects - short term	0.59 mg/m <sup>3</sup> (General population)
		1.17 mg/m <sup>3</sup> (workers)

## · PNECs

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

PNEC STP	10 mg/L (sewage plant)
PNEC sediment	0.341 mg/kg (freshwater- sediment)
	0.034 mg/kg (seawater - sediment)
PNEC soil	0.065 mg/kg (soil ( Boden))
PNEC	0.006 mg/l (freshwater)
	0.001 mg/l (marine water)
PNEC Secondary poisoning	11 mg/kg (food)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)**

PNEC STP	1 mg/L (sewage plant)
PNEC sediment	0.283 mg/kg (freshwater- sediment)
	0.028 mg/kg (seawater - sediment)
PNEC soil	0.223 mg/kg (soil ( Boden))
PNEC	0.011 mg/l (freshwater)
	0.001 mg/l (marine water)

**2095-06-9 N,N - Bis(2,3-epoxypropyl)anilin**

PNEC	0.072 mg/kg (freshwater- sediment)
	0.0072 mg/kg (seawater - sediment)
	0.048 mg/kg (soil ( Boden))
PNEC STP	1 mg/L (sewage plant)
PNEC aqua	4.2 ug/L (freshwater)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see section 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

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· **Hand protection**

Preventive skin protection (3-point program) required



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

· **Penetration time of glove material**

Suitable materials for protective gloves, EN 374-3:

Polychloroprene - CR: thickness &gt; = 0.5 mm, breakthrough time &gt; = 480 min.

NBR - NBR: thickness &gt; = 0,35 mm, Breakthrough time &gt; = 480 min.

Butyl rubber - IIR: thickness &gt; = 0.5 mm, breakthrough time &gt; = 480 min.

Fluorine rubber - FKM: thickness &gt; = 0.4 mm; breakthrough time &gt; = 480 min.

Recommendation: Dispose of contaminated gloves ..

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

Tightly sealed goggles

· **Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**

· <b>Colour:</b>	Grey
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	130 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	135 °C
· <b>Auto-ignition temperature:</b>	290 °C
· <b>Decomposition temperature:</b>	ca. 95 °C
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic at 20 °C:</b>	60,000 mPas

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<ul style="list-style-type: none"> <li>· <b>Solubility</b></li> <li>· <b>water:</b> Insoluble.</li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Vapour pressure:</b> Not determined.</li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b> 1.9 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b> Category temperature : 110°C The category temperature (T<sub>exo</sub>) is the maximum tolerated temperature with which a reaction product or a substance can be handled without danger.</li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Highly viscous</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product does not present an explosion hazard.</li> <li>· <b>Solvent content:</b></li> <li>· <b>Organic solvents:</b> 1.2 %</li> <li>· <b>VOC (EC)</b> 22.5 g/l</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> <li>· <b>Oxidising gases</b> Void</li> <li>· <b>Gases under pressure</b> Void</li> <li>· <b>Flammable liquids</b> Void</li> <li>· <b>Flammable solids</b> Void</li> <li>· <b>Self-reactive substances and mixtures</b> Void</li> <li>· <b>Pyrophoric liquids</b> Void</li> <li>· <b>Pyrophoric solids</b> Void</li> <li>· <b>Self-heating substances and mixtures</b> Void</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void</li> <li>· <b>Oxidising liquids</b> Void</li> <li>· <b>Oxidising solids</b> Void</li> <li>· <b>Organic peroxides</b> Void</li> <li>· <b>Corrosive to metals</b> Void</li> <li>· <b>Desensitised explosives</b> Void</li> </ul>	

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Exothermic polymerisation possible by temperature over 150°C
- **10.3 Possibility of hazardous reactions** Reacts with amines.
- **10.4 Conditions to avoid**  
Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.
- **10.5 Incompatible materials:** Incompatible with oxidizing agents, acids

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· 10.6 Hazardous decomposition products: if handled accordingly no products of decomposition.

**SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

## · LD/LC50 values relevant for classification:

**7429-90-5 aluminium**

Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>888 mg/l (rat)

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral	LD50	15,000 mg/kg (rat)
Dermal	LD50	23,000 mg/kg (rabbit)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)**

Oral	LD50	2,189 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)

**2095-06-9 N,N - Bis(2,3-epoxypropyl)anilin**

Oral	LD50	1,037 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity**  
Suspected of causing genetic defects.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

## · Endocrine disrupting properties

128-37-0 2,6-di-tert-butyl-p-cresol

List II

**SECTION 12: Ecological information**

## · 12.1 Toxicity

## · Aquatic toxicity:

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

LC50 (96 h)	2 mg/l (Oncorhynchus mykiss)
EC50 (48 h)	1.8 mg/l (Daphnia Magna)
ErC50/72h	11 mg/l (Algae)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)**

LC50 (96 h)	30 mg/l (Oncorhynchus mykiss) (OECD 203 Fish, Acute Toxicity Test)
EC50 (48 h) (static)	47 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
IC50 (3h) (static)	>100 mg/l (Microorganisms)

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**2095-06-9 N,N - Bis(2,3-epoxypropyl)anilin**

LC50 (96 h)	4.2 mg/l (F)
EC50 (48 h)	18 mg/l (D)
EC50 (72 h)	15 mg/l (Wasserpflanzen)
EC50(3h)	>1,000 mg/l (sludge)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** Elimination by adsorption onto activated sludge
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate waste code according to the European Waste Catalogue (EWC) should be used.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |  |
|--|--|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, IMDG, IATA</b> | UN3082   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR</b>            | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, N,N - Bis(2,3-epoxypropyl)anilin, KEROSENE)              |
| · <b>IMDG</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, N,N - Bis(2,3-epoxypropyl)anilin, KEROSENE), MARINE POLLUTANT |
| · <b>IATA</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, N,N - Bis(2,3-epoxypropyl)anilin, KEROSENE)                   |

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Version number 19 (replaces version 18)

Revision: 29.11.2022

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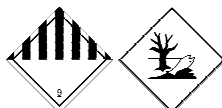
## · 14.3 Transport hazard class(es)

## · ADR



· Class 9 (M6) Miscellaneous dangerous substances and articles.  
· Label 9

## · IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles.  
· Label 9

## · 14.4 Packing group

· ADR, IMDG, IATA III

## · 14.5 Environmental hazards:

Product contains environmentally hazardous substances:  
bis[4-(2,3-epoxypropoxy)phenyl]propane

## · Marine pollutant:

Symbol (fish and tree)

## · Special marking (ADR):

Symbol (fish and tree)

## · Special marking (IATA):

Symbol (fish and tree)

## · 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

## · Hazard identification number (Kemler code):

90

## · EMS Number:

F-A,S-F

## · Stowage Category

A

## · 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

## · Transport/Additional information:

## · ADR

## · Limited quantities (LQ)

5L

## · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

## · Transport category

3

## · Tunnel restriction code

(-)

## · IMDG

## · Limited quantities (LQ)

5L

## · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

## · UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, N,N - BIS(2,3-EPOXYPROPYL)ANILIN, KEROSENE), 9, III

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**SECTION 15: Regulatory information**· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS07 GHS08 GHS09

· **Signal word** Warning· **Hazard-determining components of labelling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane

N,N - Bis(2,3-epoxypropyl)anilin

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category E2** Hazardous to the Aquatic Environment· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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**Trade name NEUKADUR VG Alu**

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· **National regulations:**· **Technical instructions (air):**

Class	Share in %
NK	1-2.5

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

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.

H412 Harmful to aquatic life with long lasting effects.

· **Recommended restriction of use**

The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

UFI code is valid in:

Germany

Poland

Belgium

Romania

France

Czech Republic

Slovenia

Austria

· **Department issuing SDS:** environment protection department· **Contact:** Herr Ottensmann Tel. +49 (0)2056-25863-7· **Version number of previous version:** 18· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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**Trade name NEUKADUR VG Alu***Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Muta. 2: Germ cell mutagenicity – Category 2**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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