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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

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

· **1.1 Product identifier**

· **Trade name NEUKADUR KP 105**

· **Utilization of the substance of the formulation:** Epoxiresin for the production of duromere
· **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
CH-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:** info@swiss-composite.ch
· **1.4 Emergency telephone number:**
Toxikologisches Infozentrum Zuerich
Tel. 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

· **Hazard-determining components of labelling:**
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
N,N - Bis(2,3-epoxypropyl)anilin
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 1)

· ***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.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P308+P313	*IF exposed or concerned: Get medical advice/attention.*
P333+P313	*If skin irritation or rash occurs: Get medical advice/attention.*
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 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 25068-38-6 *NLP: 500-033-5* *Reg.nr.: 01-2119456619-26*	*reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700)* *Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317*	*25-50%*
CAS: 9003-36-5 *NLP: 500-006-8* *Reg.nr.: 01-2119454392-40*	*formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol* *Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317*	*5-10%*
CAS: 2095-06-9 *Reg.nr.: 01-2120782027-53-xxxx*	*N,N - Bis(2,3-epoxypropyl)anilin* *Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317*	*2.5-5%*

· ***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.*
· ***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.

(Contd. on page 3)

altropol

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 2)

· ***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:***
CO2, 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 (NOx)
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.
cover accouterment bear , exposed person remove
· ***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 item 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.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 3)

· ***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 Specific end use(s)*** *No further relevant information available.*

*

SECTION 8: Exposure controls/personal protection

· ***Additional information about design of technical facilities:*** *No further data; see item 7.*

· ***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***		
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700)		
Oral	*DNEL Acute - systemic effects*	*0.75 mg/kg bw/day (General population)*
	DNEL Long-term - systemic effects	*0.75 mg/kg bw/day (General population)*
Dermal	*DNEL Acute - systemic effects*	*3.571 mg/kg bw/day (General population)*
		8.33 mg/kg bw/day (workers)
	DNEL Long-term - systemic effects	*3.571 mg/kg bw/day (General population)*
		8.33 mg/kg bw/day (workers)
Inhalative	*DNEL Acute - systemic effects*	*12.25 mg/m³ (workers)*
	DNEL Long-term - systemic effects	*12.25 mg/m³ (workers)*

· ***PNECs***		
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700)		
Oral	*PNEC*	*11 mg/kg (food)*
	PNEC	*0.996 mg/kg (freshwater- sediment)*
		0.0996 mg/kg (seawater - sediment)
		0.196 mg/kg (soil (Boden))
	PNEC	*0.006 mg/l (freshwater)*
		0.0006 mg/l (marine water)
		10 mg/l (sewage plant)

· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***8.2 Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

(Contd. on page 5)

(Contd. of page 4)

Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
In inadequately ventilated places and during spraying respirator
necessary. Recommended to be fresh-air mask or filter combination for short-term work
A2-P2
Not necessary if room is well-ventilated.
· **Protection of hands:**
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.
· **Penetration time of glove material**
Suitable materials for protective gloves, EN 374-3:
Polychloroprene - CR: thickness> = 0.5 mm, breakthrough time> = 480 min.
NBR - NBR: thickness> = 0,35 mm, Breakthrough time> = 480 min.
Butyl rubber - IIR: thickness> = 0.5 mm, breakthrough time> = 480 min.
Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 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 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**	
· **Appearance:**	
Form:	Pasty
Colour:	Grey
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	130 °C
· **Flash point:**	135 °C

(Contd. on page 6)

altropol

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 5)

· ***Flammability (solid, gas):***	*Not applicable.*
· ***Ignition temperature:***	*290 °C*
· ***Decomposition temperature:***	*ca. 95 °C*
· ***Auto-ignition temperature:***	*Product is not selfigniting.*
· ***Explosive properties:***	*Product does not present an explosion hazard.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapour pressure:***	*Not determined.*
· ***Density at 20 °C:***	*1,5 g/cm³*
· ***Relative density***	*Not determined.*
· ***Vapour density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with water:***	*Insoluble.*
· ***Partition coefficient: n-octanol/water:***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic:	*Not determined.*
· ***Solvent content:***	
Organic solvents:	*0,4 %*
VOC (EC)	*5.5 g/l*
· ***9.2 Other information***	*Category temperature : 110°C* *The category temperature (T exo) is the maximum tolerated temperature* *with which a reaction product or a substance can be handled without danger.*

*

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

*

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity*** *Based on available data, the classification criteria are not met.*

· ***LD/LC50 values relevant for classification:***		
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700)		
Oral	*LD50*	*15,000 mg/kg (Ratte)*

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 6)

Dermal	*LD50*	*23,000 mg/kg*
9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol		
Oral	*LD50*	*10,000 mg/kg (Ratte)*
Dermal	*LD50*	*>2,000 mg/kg (Kaninchen)*
2095-06-9 N,N - Bis(2,3-epoxypropyl)anilin		
Oral	*LD50*	*1,620 mg/kg (Ratte)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Causes skin irritation.
· ***Serious eye damage/irritation***
Causes serious eye irritation.
· ***Respiratory or skin sensitisation***
May cause an allergic skin reaction.
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***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.*

*
SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700)	
LC50 (96 h)	*2 mg/l (Leuciscus)*
EC50 (48 h)	*1.8 mg/l (Daphnia Magna)*

· ***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.*
· ***Ecotoxical effects:***
· ***Remark:*** *Toxic for fish*
· ***Additional ecological information:***
· ***General notes:***
Also poisonous for fish and plankton in water bodies.
Toxic for 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.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 7)

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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

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	*UN3082*
· **14.2 UN proper shipping name**	
· **ADR**	*3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, N,N - Bis(2,3-epoxypropyl)anilin)*
· **IMDG**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, N,N - Bis(2,3-epoxypropyl)anilin), MARINE POLLUTANT*
· **IATA**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, N,N - Bis(2,3-epoxypropyl)anilin)*
· **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*

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 8)

· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: oct-1-ene, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
· **Marine pollutant:**	Yes
	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.
· **Danger code (Kemler):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	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**	E
· **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. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700), FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL, N,N - BIS(2,3-EPOXYPROPYL)ANILIN), 9, III

*

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

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 9)

· ***Hazard-determining components of labelling:***
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
N,N - Bis(2,3-epoxypropyl)anilin
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
· ***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.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P308+P313	*IF exposed or concerned: Get medical advice/attention.*
P333+P313	*If skin irritation or rash occurs: Get medical advice/attention.*
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*

· ***National regulations:***

· ***Technical instructions (air):***

Class	*Share in %*
NK	*0.25-1*

· ***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.

· ***Department issuing SDS:*** *info@swiss.composite.ch*

· ***Contact:***
Herr Karasmann Tel. +41 (0)31 763 60 60
Herr Ottensmann Tel. +49 (0)2056-25863-7
· ***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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 11)

altropol

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2018 *Version number 10* *Revision: 17.10.2018*

Trade name NEUKADUR KP 105

(Contd. of page 10)

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
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

· **** Data compared to the previous version altered.***