

\*

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

- **1.1 Product identifier**
- **Creation date version 1** 22.12.2005
- **Trade name** NEUKADUR Flexible Compound N
- **Article number:** P1002
- **Utilization of the substance of the formulation:** Polyol for Polyurethanes
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **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**  
The product is not classified, according to the GB CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
EUH210 Safety data sheet available on request.
- **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.

(Contd. on page 2)

-GB-

## Trade name NEUKADUR Flexible Compound N

(Contd. of page 1)

· **Dangerous components:**

CAS: 27138-31-4 EINECS: 248-258-5 Reg.nr.: 01-2119529241-49-xxxx	oxydipropyl dibenzoate Aquatic Chronic 3, H412	5-10%
CAS: 85-60-9 EINECS: 201-618-5 Reg.nr.: 01-2119951043-47	Phenol,4,4'-butylidenebis(2-81, 1-dimethylethyl)5-methyl- Substance identified as having endocrine disrupting properties (II)	0.25-1%

· **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:**

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

If swallowed, rinse mouth with water (only if the person is conscious).

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 dioxide

Carbon monoxide (CO)

· **5.3 Advice for firefighters**· **Protective equipment:** Wear self-contained respiratory protective device.· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

GB

(Contd. on page 3)

Trade name NEUKADUR Flexible Compound N

(Contd. of page 2)

\*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected people away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.
- **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**  
Inform personnel of the affiliated with the product hazards and risks  
provide for best ventilation in the work space  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep container tightly closed and dry and storage in a good ventilated room.  
  
Storage temperature: 20 - 25 °C.  
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.  
Store away from water.  
Do not store together with oxidising and acidic materials as well as heavy-metal compounds.
- **Further information about storage conditions:** None.
- **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.

(Contd. on page 4)

## Trade name NEUKADUR Flexible Compound N

(Contd. of page 3)

## · DNELs

## 27138-31-4 oxydipropyl dibenzoate

Oral	DNEL Acute systemic effects - short term	80 mg/kg bw/day (General population)
	DNEL systemic effects - long term exposure	5 mg/kg bw/d (General population)
Dermal	DNEL Acute systemic effects - short term	80 mg/kg bw/day (General population) 170 mg/kg bw/day (workers)
	DNEL systemic effects - long term exposure	0.22 mg/kg bw/d (General population) 10 mg/kg bw/d (workers)
Inhalative	DNEL Acute systemic effects - short term	8.7 mg/m <sup>3</sup> (General population) 35.08 mg/m <sup>3</sup> (workers)
	DNEL systemic effects - long term exposure	8.69 mg/m <sup>3</sup> (General population) 8.8 mg/m <sup>3</sup> (workers)

## · PNECs

## 27138-31-4 oxydipropyl dibenzoate

PNEC	1.49 mg/kg (freshwater- sediment)
	0.149 mg/kg (seawater - sediment)
	1 mg/kg (soil ( Boden))
PNEC STP	10 mg/L (sewage plant)
PNEC	0.0037 mg/l (freshwater)
	0.00037 mg/l (marine water)
	0.037 mg/l (intermittent releases)

· **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:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Hand protection**

Preventive skin protection (3-point program) required

Gloves approved to relevant standards as EN 374 (Europe) and F739 (U.S.)

tested gloves are used. Suitability and durability of a Glove is dependent on usage, for example frequency and duration of contact,

chemical resistance of glove material and dexterity Always seek advice from glove suppliers.

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

(Contd. on page 5)

**Trade name NEUKADUR Flexible Compound N**

(Contd. of page 4)

has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through 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**

· **Physical state**

Fluid

· **Colour:**

Grey

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

>250 °C (Polyesterpolyol)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

192 °C (27138-31-4 oxydipropyl dibenzoate)

· **Auto-ignition temperature:**

450 °C (1318-02-1 zeolites)

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic at 20 °C:**

9,000 mPas

· **Solubility**

· **water:**

Insoluble.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20 °C:**

1.4 g/cm<sup>3</sup>

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **9.2 Other information**

· **Appearance:**

· **Form:**

Fluid

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

(Contd. on page 6)

Trade name **NEUKADUR Flexible Compound N**

(Contd. of page 5)

· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.2 %
· <b>VOC (EC)</b>	2.5 g/l
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

\*

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.

(Contd. on page 7)

GB

Trade name NEUKADUR Flexible Compound N

(Contd. of page 6)

- **10.3 Possibility of hazardous reactions**  
Violent reaction with concentrated alkali and oxidising agents.
- **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:** water, alcohol, amine, base and acid
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 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:**

#### 27138-31-4 oxydipropyl dibenzoate

Oral	LD50	3,914 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50/4 h	200 mg/l (rat)

#### 85-60-9 Phenol,4,4'-butylidenebis(2-81, 1-dimethylethyl)5-methyl-

Dermal	LD50	>5,000 mg/kg (rabbit)
--------	------	-----------------------

- **Skin corrosion/irritation**  
irritation feasible  
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **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**

85-60-9	Phenol,4,4'-butylidenebis(2-81, 1-dimethylethyl)5-methyl-	List II
128-37-0	2,6-di-tert-butyl-p-cresol	List II

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 27138-31-4 oxydipropyl dibenzoate

LC50 (96 h)	3.7 mg/l (F)
LL50 (48h)	19.3 mg/L (D)
LL50(96h)	4.9 mg/l (Algae)

#### 85-60-9 Phenol,4,4'-butylidenebis(2-81, 1-dimethylethyl)5-methyl-

EC50 (48 h)	>100 mg/l (Daphnia Magna)
-------------	---------------------------

(Contd. on page 8)

## Trade name NEUKADUR Flexible Compound N

(Contd. of page 7)

- **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.  
Must be specially treated adhering to official regulations.
- **Waste disposal key:**  
VeVA:  
20 01 27 \* paints, printing inks, adhesives and synthetic resins containing dangerous substances
- **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, ADN, IMDG, IATA</b>                       | Void            |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | Void            |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void            |
| · <b>14.5 Environmental hazards:</b>  | Not applicable. |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |

(Contd. on page 9)

-GB



Trade name NEUKADUR Flexible Compound N

(Contd. of page 8)

- |   |                 |
|---|-----------------|
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                       | Void            |

**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** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **National regulations:**
  - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| NK    | 0.1-0.25   |
- **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**  
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.
- **Department issuing SDS:** environment protection department
- **Contact:** 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 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

(Contd. on page 10)

GB

**Trade name NEUKADUR Flexible Compound N**

(Contd. of page 9)

*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 (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**\* Data compared to the previous version altered.*

GB