

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 1 / 11

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

### 1.1 Product identifier

**APYRAL® 40CDO**

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

#### 1.2.1 Relevant uses

Flame retardant, additive, filler, pigment, ground chemical, health care, personal care, viscosity adjustor

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Nabaltec AG  
Postfach 1860  
92409 Schwandorf / GERMANY  
Phone +49 (0) 9431-53-0  
Fax +49 (0) 9431-53-289  
Homepage [www.nabaltec.de](http://www.nabaltec.de)  
E-mail [info@nabaltec.de](mailto:info@nabaltec.de)

#### Address enquiries to

##### Technical information

[info@nabaltec.de](mailto:info@nabaltec.de)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Company

+49 (0)9431 53222 (24h)  
+49 (0)9431 530 (24h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

### 2.2 Label elements

#### Hazard pictograms

#### Hazard statements

none

### 2.3 Other hazards

#### Human health dangers

Prolonged and excessive contact can cause irritation of the respiratory tract.  
Contains no ingredients with endocrine-disrupting properties.

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

none

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 2 / 11

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
> 99,5	Aluminium hydroxide
	CAS: 21645-51-2, EINECS/ELINCS: 244-492-7, Reg-No.: 01-2119529246-39-XXXX

**Comment on component parts** No dangerous components.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Change powdered clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In the event of symptoms seek medical treatment.
<b>Ingestion</b>	Rinse out mouth and give plenty of water to drink. In the event of symptoms seek medical treatment.

### 4.2 Most important symptoms and effects, both acute and delayed

none

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	Full water jet

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

none

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

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

Use breathing apparatus if exposed to dust.  
Avoid dust formation.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Avoid raising dust.  
Dispose of absorbed material in accordance within the regulations.

Nabaltec AG  
92409 Schwandorf

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 3 / 11

#### 6.4 Reference to other sections

See SECTION 8+13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid the formation and deposition of dust.  
Provide vacuuming if dust raised.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Do not eat, drink, smoke or take drugs at work.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with food and animal food/diet.  
Store in a dry place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

##### DNEL

Substance
Aluminium hydroxide, CAS: 21645-51-2
Industrial, inhalative, Long-term - local effects, 10,76 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 10,76 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 4,74 mg/kg bw/day

##### PNEC

Substance
Aluminium hydroxide, CAS: 21645-51-2
There are no PNEC values established for the substance.

Nabaltec AG

92409 Schwandorf

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 4 / 11

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m <sup>3</sup> particle inhalable; 1,25 mg/m <sup>3</sup> particle respirable). Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,11mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

Nabaltec AG  
92409 Schwandorf

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 5 / 11

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Form	powder
Color	white
Odor	odourless
Odour threshold	not applicable
pH-value	8 - 9 (20°C) Saturated solution
pH-value [1%]	not determined
Boiling point or initial boiling point and boiling range [°C]	2980
Flash point [°C]	not applicable
Flammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/cm <sup>3</sup> ]	2,4 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not determined
Solubility in water	0,00009 g/l (20°C)
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not applicable
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	> 200
Particle characteristics	not relevant

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

Strong heating, because the thermal decomposition starts from 200°C.

**Nabaltec AG**

**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 6 / 11

### **10.5 Incompatible materials**

Reactions with strong acids and alkalis.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 7 / 11

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute oral toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Aluminium hydroxide, CAS: 21645-51-2
LD50, oral, Rat, > 2000 mg/kg
NOAEL, oral, Rat, 30 mg/kg bw/day chronic (analogon)

**Acute dermal toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Aluminium hydroxide, CAS: 21645-51-2
Based on the available information, the classification criteria are not fulfilled.

**Acute inhalational toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Aluminium hydroxide, CAS: 21645-51-2
LC50, inhalative, Rat, 7,6 mg/l 1h
NOAEC, inhalative, Rat, 70 mg/m³ subchronic (analogon)

**Serious eye damage/irritation** Non-corrosive / non-irritating.

Substance
Aluminium hydroxide, CAS: 21645-51-2
Eye, non-irritating

**Skin corrosion/irritation** Non-corrosive / non-irritating.

Substance
Aluminium hydroxide, CAS: 21645-51-2
dermal, non-irritating

**Respiratory or skin sensitisation** Non-sensitizing.

Substance
Aluminium hydroxide, CAS: 21645-51-2
dermal, non-sensitizing
inhalative, non-sensitizing

**Specific target organ toxicity — single exposure** No classification.

Substance
Aluminium hydroxide, CAS: 21645-51-2
inhalative, no adverse effect observed

**Specific target organ toxicity — repeated exposure** No classification.

**Mutagenicity** There is no evidence of any mutagenic effects.  
**Reproduction toxicity** There is no evidence of any reproductive toxicity effects.  
**Carcinogenicity** There is no evidence of any carcinogenic effects.  
**Aspiration hazard** No classification.

**General remarks**

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 8 / 11

none

## 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Aluminium hydroxide, CAS: 21645-51-2
LC50, Salmo trutta, > 100 mg/l
EC50, Daphnia magna, > 100 mg/l
EC50, Selenastrum capricornutum, > 100 mg/l

### 12.2 Persistence and degradability

**Behaviour in environment compartments** not applicable

**Behaviour in sewage plant** not applicable

**Biological degradability** not applicable

### 12.3 Bioaccumulative potential

not applicable

### 12.4 Mobility in soil

not applicable

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

None known.



**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 9 / 11

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

For recycling, consult manufacturer.

**Waste no. (recommended)**

061399

**Contaminated packaging**

Uncontaminated packaging may be reused.

**Waste no. (recommended)**

150101  
 150102

**SECTION 14: Transport information**

**14.1 UN number or ID number**

**Transport by land according to ADR/RID**

not applicable

**Inland navigation (ADN)**

not applicable

**Marine transport in accordance with IMDG**

not applicable

**Air transport in accordance with IATA**

not applicable

**14.2 UN proper shipping name**

**Transport by land according to ADR/RID**

NO DANGEROUS GOODS

**Inland navigation (ADN)**

NO DANGEROUS GOODS

**Marine transport in accordance with IMDG**

NOT CLASSIFIED AS "DANGEROUS GOODS"

**Air transport in accordance with IATA**

NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

**Transport by land according to ADR/RID**

not applicable

**Inland navigation (ADN)**

not applicable

**Marine transport in accordance with IMDG**

not applicable

**Air transport in accordance with IATA**

not applicable

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 10 / 11

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq$ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq$ 0.1% that are restricted. According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
<b>TRANSPORT-REGULATIONS</b>	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
<b>NATIONAL REGULATIONS (EU):</b>	
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	0%

#### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

Nabaltec AG

92409 Schwandorf

Date printed 11.07.2024, Revision 11.07.2024

Version 1.0

Page 11 / 11

## SECTION 16: Other information

### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®/STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

#### Classification procedure

**Modified position** none

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