

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Hakaphos® Calcidic Plus P 10-31-10(+10)



Version: 1.9

Date of last issue: 23.12.2022

Date of first issue: 07.10.2016

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

#### 1.1 Product identifier

Trade name : Hakaphos® Calcidic Plus P 10-31-10(+10)

UFI : 2FP5-9066-8008-6RV7

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

Use of the : Fertilizer  
Substance/Mixture

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

Company : COMPO EXPERT GmbH  
Krögerweg 10  
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person : info@compo-expert.com  
responsible for the SDS

#### 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h  
Telephone: +49 (0) 6132 - 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Further information : German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

### 2.3 Other hazards

Unspecified

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
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urea phosphate (1:1)	4861-19-2 225-464-3	Skin Corr. 1B; H314	$\geq 2 - \leq 10$
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	$\geq 10 - \leq 55$
Nitric acid, ammonium calcium salt	15245-12-2 239-289-5 01-2119493947-16-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318	$\geq 10 - \leq 55$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : Keep patient calm, remove to fresh air, seek medical attention.  
If unconscious place in recovery position and seek medical advice.  
In case of lung irritation, first treatment with dexametason aerosol (spray).
- In case of skin contact : Wash off with soap and water.  
Remove contaminated clothing. If irritation develops, get medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

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

- Symptoms : No information available.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing media : Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Sand

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

Specific hazards during firefighting : At temperatures above 130 °C, dangerous decomposition gases can be emitted:  
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia  
Oxides of phosphorus

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Environmental precautions : Do not empty into drains.  
Retain and dispose of contaminated wash water.

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

Methods for cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

none, For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid dust formation.  
Avoid contact with skin, eyes and clothing.  
Protect from contamination.  
Keep away from direct sunlight.  
Protect against heat.  
Protect from moisture.
- Advice on protection against fire and explosion : The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.
- Hygiene measures : At the end of the shift the skin should be cleaned and skin-care agents applied.

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

- Requirements for storage areas and containers : Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)
- Advice on common storage : Store well away from other substances.
- Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing preparations

#### 7.3 Specific end use(s)

- Specific use(s) : Always read the label and product information before use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

3 mg/m<sup>3</sup> (Dust entering alveoli), 10 mg/m<sup>3</sup> (inhalable dust)

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day

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	Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
	Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
Nitric acid, ammonium calcium salt	Workers	Inhalation	Specific effects	24,5 mg/m3
Remarks:	Exposure time: 1 DAY			
	Workers	Skin contact	Specific effects	13,9 mg/kg
Remarks:	Exposure time: 1 DAY			
	Consumers	Inhalation	systemic effects	6,3 mg/m3
	Consumers	Skin contact	systemic effects	8,33 mg/kg
	Consumers	Ingestion	systemic effects	8,33 mg/kg
Remarks:	Exposure time: 1 DAY			

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l
Nitric acid, ammonium calcium salt	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

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Remarks : Chemical resistant protective gloves (EN 374). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Respiratory protection : Particle filtering disposable mask DIN EN 149 with filter FFP2.

### Environmental exposure controls

General advice : Do not empty into drains.  
Retain and dispose of contaminated wash water.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: solid
Colour	: light grey
Odour	: odourless
pH	: ca. 2,5, Concentration: 100 g/l (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not auto-flammable
Upper explosion limit	: Not explosive
Lower explosion limit	: Not explosive
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: Not applicable
Density	: 1,18 g/cm <sup>3</sup>

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Bulk density	: ca. 1.050 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Decomposition temperature	: > 130 °C To avoid thermal decomposition, do not overheat.
Viscosity	
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<b>Particle characteristics</b>	
Particle Size Distribution	: D50 = 475 µm D50 Tolerance range = 380 µm - 570 µm Measurement technique: Sieve analysis

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalis.

### 10.4 Conditions to avoid

Conditions to avoid : Corrosive to metals  
Contact with water or moist air liberates phosphoric acid.



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### 10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia  
Oxides of phosphorus

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

##### Components:

##### **ammonium nitrate:**

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l  
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

##### **Nitric acid, ammonium calcium salt:**

Acute oral toxicity : LD50: > 300 mg/kg

Acute inhalation toxicity : Remarks: Not relevant because of low vapour pressure.  
Remarks: Not relevant because of low dust formation.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Guideline 402

#### Skin corrosion/irritation

##### Product:

Remarks: No data available

##### Components:

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### **ammonium nitrate:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

### **Nitric acid, ammonium calcium salt:**

Species: Rabbit

Result: No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: No data available

#### **Components:**

##### **ammonium nitrate:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

##### **Nitric acid, ammonium calcium salt:**

Species: Rabbit

Result: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Product:**

Result: non-sensitizing

#### **Components:**

##### **ammonium nitrate:**

Result: Does not cause skin sensitisation.

### **germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro

: Remarks: In vitro tests did not show mutagenic effects  
The product has not been tested. The information is derived  
from the properties of the individual components.

#### **Components:**

##### **ammonium nitrate:**

Genotoxicity in vitro

: Method: OECD Test Guideline 471  
Result: negative

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### Carcinogenicity

#### Product:

Remarks: Contains no ingredient listed as a carcinogen

#### Components:

##### **ammonium nitrate:**

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

#### Product:

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal development :  
Remarks: Contains no ingredient listed as toxic to reproduction

#### Components:

##### **ammonium nitrate:**

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: Rat  
Remarks: Did not show teratogenic effects in animal experiments.

### STOT - single exposure

#### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

#### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **ammonium nitrate:**

Species: Rat

NOAEL: > 1.500 mg/kg

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Application Route: Oral  
Exposure time: 28 d

Species: Rat  
NOAEL: = 256 mg/kg  
Application Route: Oral  
Exposure time: 52 w  
Method: OECD Test Guideline 453

Species: Rat  
NOAEL:  $\geq 185$  mg/kg  
Application Route: by inhalation  
Exposure time: 2 w  
Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available

### Experience with human exposure

#### Product:

General Information : Danger of methaemoglobin formation.

### Further information

#### Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **ammonium nitrate:**

Toxicity to fish : LC50 (Fish):  $> 100$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 490 mg/l  
aquatic invertebrates Exposure time: 48 h

LC50 : 490 mg/l

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Toxicity to algae : EC50 (*Selenastrum capricornutum* (green algae)): 1.700 mg/l  
Exposure time: 10 d

### **Nitric acid, ammonium calcium salt:**

Toxicity to fish : LC50 (Guppy): 1.378 mg/l  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC50 (*Daphnia magna* (Water flea)): 490 mg/l  
aquatic invertebrates

Toxicity to algae : LC50 (other aquatic plant): > 1.700 mg/l

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: The product works in the soil as fertilizer and is diminished in a few weeks.

### **Components:**

#### **ammonium nitrate:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### **Nitric acid, ammonium calcium salt:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### **Components:**

#### **ammonium nitrate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: -3,1  
octanol/water

### **Nitric acid, ammonium calcium salt:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

### **Product:**

Mobility : Remarks: Groundwater contamination is unlikely.

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Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: Not applicable

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is a high probability that the product is acute not harmful to aquatic organisms.  
Additional ecological information  
The product has not been tested. The information is derived from the properties of the individual components.  
At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.  
Contact manufacturer.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

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### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Remarks : Not relevant

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## SECTION 15: Regulatory information

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

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

Other regulations : TRGS 511 'Ammonium nitrate'

This product is subject to Regulation (EU) 2019/1148;  
suspicious transactions, disappearance or theft of the product  
must be reported to the relevant authority.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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## SECTION 16: Other information

### Full text of H-Statements

H272 : May intensify fire; oxidizer.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Ox. Sol. : Oxidizing solids  
Skin Corr. : Skin corrosion

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling

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Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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