

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



## Kamasol® Ca

Version: 2.6  
Date of last issue: 06.04.2023  
Date of first issue: 26.09.2016

Revision Date:  
08.02.2024

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

#### 1.1 Product identifier

Trade name : Kamasol® Ca  
UFI : 53R0-10XQ-9009-STDJ

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

Use of the Substance/Mixture : Fertiliser

#### 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 responsible for the SDS : info@compo-expert.com

#### 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)

Skin irritation, Category 2 H315: Causes skin irritation.

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

#### 2.2 Label elements

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

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	:	P264 Wash hands thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection. 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/ doctor. P362 Take off contaminated clothing and wash before reuse.

### 2.3 Other hazards

Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Liquid mixture of organic and inorganic salts of fertilizers.  
Contains calcium salt

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Calcium nitrate	10124-37-5 233-332-1 01-2119495093-35-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10 - <= 25

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Nitric acid, ammonium calcium salt	15245-12-2 239-289-5 01-2119493947-16-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 3 - <= 25
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- If inhaled : Keep patient calm, remove to fresh air.
- In case of skin contact : Take off immediately all contaminated clothing. Wash off with soap and plenty of water.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, seek medical advice.
- If swallowed : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms : No information available.

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

- Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water  
Water spray  
Dry powder  
Sand  
Foam  
Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : In case of combustion evolution of dangerous gases possible.

### 5.3 Advice for firefighters

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

Further information : Cool endangered containers with water-spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
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 : Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
In case of involuntary exposition of the product contact producer or supplier.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Retain and dispose of contaminated wash water.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Rinse with water.

### 6.4 Reference to other sections

none

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of workday.

Advice on protection against : The product is not flammable.

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fire and explosion

Hygiene measures : Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. When using do not eat, drink or smoke.

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

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Keep away from sources of ignition - No smoking.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Segregate from acids and bases.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : 5 - 20 °C

### 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

The product does not contain any relevant quantities of materials with workplace related values that require supervising.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Kamasol® Ca				
Remarks:	No data available			

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

Substance name	Environmental Compartment	Value
Kamasol® Ca		
Remarks:	No data available	

### 8.2 Exposure controls

#### Personal protective equipment

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Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Remarks : Chemical resistant protective gloves (EN 374).

Skin and body protection : Wearing of closed work clothing is recommended.

Respiratory protection : Not required; except in case of aerosol formation.

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
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 : liquid

Colour : dark brown

Odour : characteristic

Odour Threshold : No data available

pH : 2,5, (20 °C)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not relevant

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

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Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if stored and applied as directed.
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

### 9.2 Other information

Surface tension : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.  
Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

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Materials to avoid : Strong acids and strong bases

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: Health injuries are not known or expected under normal use.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

##### Components:

##### **Calcium nitrate:**

Acute oral toxicity : LD50 (Rat): 300 - 2.000 mg/kg  
Method: OECD Guideline 423

Acute inhalation toxicity : Remarks: No data available

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

##### **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: May irritate skin.

##### Components:

##### **Calcium nitrate:**

Method: OECD Test Guideline 404

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Result: non-irritant

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

Species: Rabbit  
Result: No skin irritation

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

#### **Product:**

Remarks: Contact with eyes may cause irritation.

#### **Components:**

##### **Calcium nitrate:**

Method: OECD Test Guideline 405  
Result: irritating

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

Species: Rabbit  
Result: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: no sensitizing effect

#### **Components:**

##### **Calcium nitrate:**

Method: OECD Guideline 429  
Result: non-sensitizing

### **germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

#### **Components:**

##### **Calcium nitrate:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### **Product:**

Remarks: Contains no ingredient listed as a carcinogen

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### Components:

#### **Calcium nitrate:**

Remarks: This information is not available.

### **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:

#### **Calcium nitrate:**

Effects on fertility :  
Remarks: This information is not available.

Effects on foetal development :  
Remarks: This information is not available.

### **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:

#### **Calcium nitrate:**

Species: Rat  
NOAEL:  $\geq 1.000$  mg/kg  
Application Route: Oral  
Exposure time: 28 d

### **Aspiration hazard**

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

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

No data available

#### Further information

No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

- Toxicity to fish : Remarks: There is a high probability that the product is acute not harmful to aquatic organisms.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: Ecological injuries are not known or expected under normal use.
- Toxicity to algae : Remarks: No data available concerning toxicity for algae.

#### Components:

##### **Calcium nitrate:**

- Toxicity to fish : LC50 (Fish): 1.378 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 490 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (unspecified algae): > 1.700 mg/l  
Exposure time: 10 d
- Toxicity to bacteria : EC50 (No data available): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Guideline 209

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

- Toxicity to fish : LC50 (Guppy): 1.378 mg/l  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 490 mg/l
- Toxicity to algae : LC50 (other aquatic plant): > 1.700 mg/l

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### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: Inherently biodegradable.

**Components:**

**Calcium 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: No bioaccumulation is to be expected (log Pow <= 4).

**Components:**

**Calcium nitrate:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

**Nitric acid, ammonium calcium salt:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

**Components:**

**Calcium nitrate:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher..

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### Components:

#### **Calcium nitrate:**

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.  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.  
Was found to be potentially biodegradable.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Fertiliser  
Check if agriculture use is possible.

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**

Segregation group : : (-)

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Not applicable

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### 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 hazard class (Germany) : WGK 1 slightly hazardous to water

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this product.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention;

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PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### 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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