



## Safety data sheet according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

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

- **1.1 Product identifier**
  - Trade name: **TOP DRIP K**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Sector of Use**
    - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
    - SU21 Consumer uses: Private households / general public / consumers
  - **Product category** PC12 Fertilisers
  - **Application of the substance / the mixture** Fertiliser
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
SARION s.r.l.  
Via C. Armellini, 22  
04100 Latina  
Tel +39 392 93 64 476  
www.sarion.com
  - **Further information obtainable from:** SARION s.r.l. - Email: regulatory@sarion.com
- **1.4 Emergency telephone number:**  
UNITED KINGDOM  
National Poisons Information Service (NPIS) - Tel: +44 844 8920111

### 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 CLP regulation.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** Void
    - **Hazard pictograms** Void
    - **Signal word** Void
    - **Hazard statements** Void
- **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: consisting of the following components.

- **Dangerous components:**

CAS: 7757-79-1 EINECS: 231-818-8 Reg.nr.: 01-2119488224-35-0029	potassium nitrate	☞ Ox. Sol. 3, H272	15-20%
CAS: 6484-52-2 EINECS: 229-347-8 Reg.nr.: 01-2119490981-27-XXXX	ammonium nitrate	☞ Ox. Sol. 1, H271; ☞ Eye Irrit. 2, H319	1-2.5%

- **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:** No special measures required.

(Contd. on page 2)



## Safety data sheet according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

**Trade name: TOP DRIP K**

(Contd. of page 1)

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Generally the product does not irritate the skin.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **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:**  
Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
  - **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
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).
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:**  
No special measures required.  
The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

**Trade name: TOP DRIP K**

(Contd. of page 2)

### 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**

**CAS: 7757-79-1 potassium nitrate**

Oral	DNEL / Long Term exposure - Systemic effects	12.5 mg/kg bw/d (general population)
Dermal	DNEL / Long Term exposure - Systemic effects	12.5 mg/kg bw/d (general population)
		20.8 mg/kg bw/d (workers)
Inhalative	DNEL / Long Term exposure - Systemic effects	10.9 mg/m <sup>3</sup> (general population)
		36.7 mg/m <sup>3</sup> (workers)

**CAS: 6484-52-2 ammonium nitrate**

Dermal	DNEL / Long Term exposure - Systemic effects	21.3 mg/kg bw/d (workers)
Inhalative	DNEL / Long Term exposure - Systemic effects	37.6 mg/m <sup>3</sup> (workers)

· **PNECs**

**CAS: 7757-79-1 potassium nitrate**

PNEC / aqua	0.45 mg/l (freshwater)
	4.5 mg/l (intermittent releases)
	0.045 mg/l (marine water)
PNEC / STP	18 mg/l (sewage treatment plant)

**CAS: 6484-52-2 ammonium nitrate**

PNEC / aqua	0.45 mg/l (freshwater)
	4.5 mg/l (intermittent releases)
	0.045 mg/l (marine water)
PNEC / STP	18 mg/l (sewage treatment 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:**

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

· **Respiratory protection:** Not required.

· **Protection of hands:**

Preventive skin protection by use of gloves is recommended.



Protective gloves

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**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

**Trade name: TOP DRIP K**

(Contd. of page 3)

· **Eye protection:**



Safety glasses

Goggles recommended during refilling

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Fluid
- **Colour:** Light brown
- **Odour:** Characteristic
- **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 4.7

· **Change in condition**

- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:**

- **Decomposition temperature:** Not determined.

· **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:** 1.23 g/cm<sup>3</sup>

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

- **water:** Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

· **Solvent content:**

- **VOC (EC)** 0.00 %

· **9.2 Other information** No further relevant information available.



## Safety data sheet according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

Trade name: TOP DRIP K

(Contd. of page 4)

### 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.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 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:****CAS: 7757-79-1 potassium nitrate**

Oral	LD50	> 2000 mg/kg (rat) (OECD TG 425: Acute Oral Toxicity: Up-and-Down Proc)
Dermal	LD50	> 5000 mg/kg (rabbit) (OECD TG 402: Acute Dermal Toxicity)
Inhalative	LC50 / 4h	> 0.527 mg/l (rat) (OECD TG 403: Acute Inhalation Toxicity) No mortality, no lesion of pathological significance were observed at the maximum achievable breathing zone concentration (0.527 mg/L air). The acute median lethal concentration (LC50) of potassium nitrate was found to be greater than 0.527 mg/L air.

**CAS: 6484-52-2 ammonium nitrate**

Oral	LD50	2950 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	> 5000 mg/kg (rat) (OECD TG 402: Acute Dermal Toxicity)

- **Primary irritant effect:**
  - **Skin corrosion/irritation** 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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**  
No further relevant information available.

**CAS: 7757-79-1 potassium nitrate**

EC50 / 48h	490 mg/l (crustacea - Daphnia magna)
LC50 / 96h	1378 mg/l (fish - Oncorhynchus mykiss) (OECD TG 203: Fish, Acute Toxicity Test)

**CAS: 6484-52-2 ammonium nitrate**

EC50 / 48h	490 mg/l (crustacea - Daphnia magna)
------------	--------------------------------------

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

(Contd. on page 6)

GB



## Safety data sheet according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

**Trade name: TOP DRIP K**

(Contd. of page 5)

- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-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.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>            | Not applicable.                                      |
| · <b>Transport/Additional information:</b>  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | Void   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)  
Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)  
Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)
  - **Directive 2012/18/EU (Seveso)**
    - **Named dangerous substances - ANNEX I** potassium nitrate, ammonium nitrate

(Contd. on page 7)

GB



## Safety data sheet according to 1907/2006/EC (REACH)

Printing date 01.02.2017

Rev. n. 1

Revision: 31.01.2017

**Trade name: TOP DRIP K**

(Contd. of page 6)

**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**

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

**Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Classification, Labelling and Packaging

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

TLV: Threshold Limit Value

TLV-TWA: Threshold Limit Value - Time Weighted Average

TLV-STEL: Threshold Limit Value - Short Term Exposure Limit

IOELV: Indicative Occupational Exposure Limit Value

BEI: Biological Exposure Indices

LD50: Lethal Dose, 50 percent

LC50: Lethal Concentration, in air, 50 percent

LC50: Lethal Concentration, 50 percent

EC50: Effective Concentration, 50 percent

ErC50: Effective Concentration, 50 percent, reduction of growth rate

Kow: Octanol-Water partition coefficient

BCF: BioConcentration Factor

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration [REACH]

ADR: Accord européen sur le transport 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

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

WGK: Wassergefährdungsklasse - Water hazard class, Germany

Ox. Sol. 1: Oxidizing solids - Category 1

Ox. Sol. 3: Oxidizing solids - Category 3

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2