



# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier: RK Artic Admix

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

Relevant uses: Winter concrete additive

Uses advised against: All uses not specified in this section or in section 7.3

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

Rakennuskemia Ov Kerkkolankatu 17 05800 Hyvinkää - Finland Phone.: +358 19 4574400 info@rakennuskemia.com www.rakennuskemia.com

1.4 Emergency telephone number: Poison information center Helsinki, open 24 h/day+358 9 471 977 (direct); +358 9 4711 (central)

# SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

# CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Eye Dam. 1: Serious eye damage, Category 1, H318

#### 2.2 Label elements:

## CLP Regulation (EC) No 1272/2008:

Dange



# Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed Eye Dam. 1: H318 - Causes serious eye damage

# **Precautionary statements:**

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

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

# P330: Rinse mouth

Additional labeling:

UFI: VJ3Q-KAFS-030V-77DS

#### 2.3 **Other hazards:**

Product fails to meet PBT/vPvB criteria

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable 3.2 Mixture: Chemical description: inorganic nitrates **Components:** 

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification				
CAS:		Potassium-pentacalc	calcium-nitrate decahydrate <sup>(1)</sup> Self-classified		80 - <90 %		
Index:	C: 480-110-7 dex: Non-applicable FACH: 01-0000020060-90-XXXX Regulation 1272/2008		Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger				
CAS:		Calcium nitrate weig	ht of nitrogen <sup>(1)</sup>	Self-classified			
		Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Ox. Sol. 3: H272 - Danger		10 - <12,5 %		

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

# SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

# By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

## By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

## By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

# Additional provisions:

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# SECTION 5: FIREFIGHTING MEASURES (continued)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

## 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

**6.3 Methods and material for containment and cleaning up:** It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

## 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

Revised: 13/09/2019

## DNEL (Workers):

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Calcium nitrate weight of nitrogen	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 10124-37-5	Dermal	Non-applicable	Non-applicable	13,9 mg/kg	Non-applicable
EC: 233-332-1	Inhalation	Non-applicable	Non-applicable	98 mg/m <sup>3</sup>	Non-applicable

### DNEL (General population):

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Calcium nitrate weight of nitrogen	Oral	Non-applicable	Non-applicable	8,33 mg/kg	Non-applicable
CAS: 10124-37-5	Dermal	Non-applicable	Non-applicable	8,33 mg/kg	Non-applicable
EC: 233-332-1	Inhalation	Non-applicable	Non-applicable	29 mg/m <sup>3</sup>	Non-applicable

# PNEC:

Identification				
Calcium nitrate weight of nitrogen	STP	18 mg/L	Fresh water	0,45 mg/L
CAS: 10124-37-5	Soil	Non-applicable	Marine water	0,045 mg/L
EC: 233-332-1	Intermittent	4,5 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

## 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

## D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CAT II	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.





Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence periods of prolonged exposu professionalindustrial users CE in accordance with the reg 20345:2012 y EN 13	re to the produc III is recomme ulations in EN IS
- Additional emergence	cy measures				
Emergency measur	re	Standards	Emergency me	asure Stand	lards
Emergency showe	ISO 3864-1:	NSI Z358-1 2011, ISO 3864-4:20	11 Eyewash stat	DIN 1: ISO 3864-1:2011,	
invironmental expos	sure controls:				
	duct and its containe pounds:	r. For additional i	nformation see subsect	t is recommended to avoid on 7.1.D	environment
V.O.C. (Supply):		6 weight	lowing characteristics.		
V.O.C. density at 20		g/m <sup>3</sup> (0 g/L)			
Average carbon num		n-applicable			
Average molecular v		n-applicable			
DN 9: PHYSICAL AN			5:		
	physical and cher	nical properties	5:		
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pH: Vapour density at 20 °C:

Partition coefficient n-octanol/water 20 °C: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

Non-applicable \*

6,3





SECTION 9: PHYSICAL AND CHEMICAL P	ROPERTIES (continued)	
Solubility in water at 20 °C:	Non-applicable *	
Solubility properties:	Non-applicable *	
Decomposition temperature:	Non-applicable *	
Melting point/freezing point:	Non-applicable *	
Explosive properties:	Non-applicable *	
Oxidising properties:	Non-applicable *	
Flammability:		
Flash Point:	Non-applicable	
Flammability (solid, gas):	Non-applicable *	
Autoignition temperature:	Non-applicable *	
Lower flammability limit:	Non-applicable *	
Upper flammability limit:	Non-applicable *	
Explosive:		
Lower explosive limit:	Non-applicable *	
Upper explosive limit:	Non-applicable *	
9.2 Other information:		
Surface tension at 20 °C:	Non-applicable *	
Refraction index:	Non-applicable *	
*Not relevant due to the nature of the product, not	providing information property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY									
10.1	Reactivity:								
	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.								
10.2	Chemical stability:								
	Chemically stable under the	e conditions of storage, ha	andling and use.						
10.3	Possibility of hazardous	reactions:							
	Under the specified conditi	ons, hazardous reactions	that lead to excessive tem	peratures or pressure are	not expected.				
10.4	Conditions to avoid:								
	Applicable for handling and	l storage at room tempera	ture:						
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity				
	Not applicable Not applicable Not applicable Not applicable								
10.5	Incompatible materials	:							
	Acids	Water	Oxidising materials	Combustible materials	Others				

### Acids Water Avoid strong acids Not applicable

## **10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

Not applicable

# SECTION 11: TOXICOLOGICAL INFORMATION

# **11.1** Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

# Dangerous health implications:

- CONTINUED ON NEXT PAGE -

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Avoid alkalis or strong bases

Precaution





# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.

- Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as
- dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	A	Acute toxicity	
Potassium-pentacalcium-nitrate decahydrate	LD50 oral	500 mg/kg (ATEi)	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: 480-110-7	LC50 inhalation	>5 mg/L (4 h)	
Calcium nitrate weight of nitrogen	LD50 oral	500 mg/kg	Rat
CAS: 10124-37-5	LD50 dermal	>2000 mg/kg	
EC: 233-332-1	LC50 inhalation	>5 mg/L (4 h)	

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# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Toxicity:

	Identification		Acute toxicity	Species	Genus
	Calcium nitrate weight of nitrogen	LC50	1378 mg/L (96 h)	Poecilia reticulada	Fish
	CAS: 10124-37-5	EC50	490 mg/L (48 h)	Daphnia magna	Crustacean
	EC: 233-332-1	EC50	Non-applicable		
12.2	Persistence and degradability:				
	Not available				
12.3	Bioaccumulative potential:				
	Not available				
12.4	Mobility in soil:				
	Not available				
12.5	Results of PBT and vPvB assessment:				

Product fails to meet PBT/vPvB criteria

# 12.6 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 01 14*	antifreeze fluids containing hazardous substances	Dangerous

### Type of waste (Regulation (EU) No 1357/2014):

HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

## **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION \*\*

This product is not regulated for transport (ADR/RID, IMDG, IATA)

\*\* Changes with regards to the previous version

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

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# SECTION 15: REGULATORY INFORMATION (continued)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Seveso III:

#### Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Calcium nitrate weight of nitrogen. Product under the provisions of Article 9

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

## Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

TRANSPORT INFORMATION (SECTION 14):

• UN number

Packing group

### Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage

H302: Harmful if swallowed

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

## CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed Eye Dam. 1: H318 - Causes serious eye damage

Ox. Sol. 3: H272 - May intensify fire, oxidiser

## Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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