# Safety Data Sheet According to Regulation (EC) No 1907/2006 Revision # 1 date : March 20, 2020

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	ubstance :				
Trade name:	Т	ripotassium citr	ate		
Chemical name:	T	Tripotassium-2-hydroxypropane-1,2,3-tricarboxylate monohydrate			
Identification number:	C	CAS No: 6100-05-6			
Registration number:	0.	01-2119457580-38-xxxx			
.2 Use of the substance	:				
Identified uses:		Food/ feedstuff additives, Pharmaceutical substance, pH-regulating agents, Food additive,			
Unrecommended uses:	N	lot identified			
Macco Organiques, s. Zahradní 46c, 792 01 IČ : 26819210, phone SDS provider's contact <b>.4 Emergency telephone</b> The first aid details may	Bruntál, Cz : +420 – 55 : Jaroslav 2 :	55 – 530 334 Zavadil , phone:  +42			<u>vadil@macco.cz</u> related illness clinic, Na Bojišti
128 08 Praha 2, tel. 2 24					
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# 4: First aid measures In all cases provide the physical and mental rest and avoid of getting chilled. In case of health problems or doubts inform physician and provide him with the information contained in this safety data sheet. Never pass a medication to a unconscious person. Maintain personal safeness during rescue operation. 4.1 First aid description: If inhaled: Stop exposition, move the afflicted person to the fresh air, keep him warm and at rest. If symptoms persist seek medical attention. In case of unconsciousness start with resuscitation (artificial respiration, cardiac massage) and call for medical attention. In the event of skin contact: Remove contaminated clothes and footwear. Wash of any skin contamination with cool water and soap. Launder clothes before re-use. In case of persisting irritation contact physician . In the event of eye contact: Remove contact lenses if present. Immediately flush with plenty of lukewarm water for at least 15 minutes. Avoid strong stream of water due to the risk of mechanical damage to the cornea. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention. Do not use neutralization solution! If swallowed: Wash out mouth with water and give plenty of water to drink (at least 300 ml). Do not induce vomiting. Seek medical attention. When vomiting, maintain supervision until the help arrives. Obtain medical advice if symptoms persist. 4.2 The most important acute and belated symptoms and effects: No information available. 4.3 Immediate medical help instruction and special treatment: No information available. 5: Fire fighting measures 5.1 Extinguishing media: Suitable extinguishing media: Water, water spray, dry powder, carbon dioxide (CO2), foam Not suitable extinguishing media : Strong water jet 5.2 Specific hazards : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health. 5.3 Special protective actions for fire-fighters: Put on gas-tight protective clothing and breathing apparatus functioning independently of the ambient air. 6: Accidental release measures 6.1 Personal precautions: Use personal safety working clothes - section 8. Prevent from skin and eye contact. Do not inhale dust. Well ventilate areas. Prevent from dust making. Other safety precautions - section 7. 6.2 Environmental precautions: Prevent from escape to watercourses and soil and from their contamination. If there is no way to avoid it, immediately inform appropriate authority (police and firemen).

# 6.3 Methods for cleaning up:

Clean up contamination/spillages as soon as they occur. Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal (according section 13). Avoid generation of dust. Wash the spillage area with large quantities of water. When packaging is damaged, replace the amount into a new packaging with proper marking.

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# 6.4 Other sections references:

Also follow the regulations in sections 8 and 13 of this safety data sheet.

# 7: Handling and storage

# 7.1 Handling:

Use the personal safety tools (section 8). Ensure fresh water for the first aid. Maintain the cleanness and tidiness on the working area. Provide basic employee training to prevent / minimize exposures and to report any healthy problems that may develop. Do not eat, drink or smoke during work. Avoid contact with skin and eyes. Wash hands duly with soap and water, take a shower. Use a body lotion.

### 7.2 Storage:

Store at a dry and well ventilated place, not above temperature 30 °C / 86 °F. Store in tightly closed packages.

### 7.3 Specific uses:

Food/ feedstuff additives, Pharmaceutical substance, pH-regulating agents, Food additive.

# 8: Exposure controls / personal protection

# 8.1 Exposure limit values

# 8.1.1 Exposure limits

not specified

## 8.1.2 Biological limit values:

not specified

### 8.1.3 DNEL and PNEC values:

### not specified

## 8.2 Exposure control

# 8.2.1 Occupational exposure control:

Operate in a well-ventilated area, avoid inhalation of dusts or mists (for liquids). Ensure shower and area for eyes rinsing. The mentioned personal safety instruments should be in compliance with EN standards.

# Personal protective equipment:

Personal protective equi	ipment:
Respiratory protection:	In the case of high dust levels wear suitable respiratory protective equipment, ie. dust mask or respirator conforming to EN standards. Recommended filter = particle filter, P2.
Hand protection:	Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Suitable materials include neoprene (chloroprene), PVC and nitrile rubber. Break through time is > 480 min. Contaminated gloves should be carefully rinsed with water before reuse. Non suitable materials: Leather gloves.
Eye / face protection:	Wear suitable eye/face protection. Most materials for protective googles and face visors will probably be suitable eg. polycarbonate.
Skin and body protection:	Normal working clothes is suitable.
occupational exposure limi contaminated clothing. Bef	ral regulations on occupational safety are in force. Do not allow exceeding standards for ts for hazardous components at the work – places. After finishing the work take off ore breaks during the work wash the hands and face. After the work wash thoroughly the eat and smoke by handling and use.
8.2.2 Environmental exposi	ure controls:
Browent from econo to or	Nuirenment.

## Prevent from escape to environment.

# 9: Physical and chemical properties

# 9.1 General information :

Physical state ( at 20 °C):	Solid – powder or fine crystals
Colour:	White
Odour (fragrance):	odourless
Treshold odour value:	odourless

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0.2 Important health pH ( at 20 °C):		7,5 – 9,0 ( 5 g/l solution at 20 °C )		
Melting point:		230 °C		
Boiling point:		Not available		
Flash point:		Not applicable, incombustible matter		
Evaporation rate:		Not applicable		
Flamability (solid, g	as) :	The substance is non-flammable		
Explosion limits	lower:	Not available, non-explosive matter		
	upper:	Not available, non-explosive matter		
Vapour pressure:		irrelevant		
Vapour density:		irrelevant		
Relative density:		1,98 g/cm <sup>3</sup>		
Water solubility ( at		60,6 g / 100 ml		
Solubility in solven		Not available		
Partition coefficien		log Pow: -1,80,2		
Self-ignition tempe		Not applicable		
Decomposition tem	iperature:	Not available		
Viscosity: Explosive propertie		Not applicable The substance is non-explosive		
Oxidizing propertie		The substance is non-oxidizing		
0.3 Other informatio		The substance is non-oxidizing		
Fat solubility:	11.	Not available		
		Not available		
Conductivity:				
Stable under recomm	nended storage and bid:	-		
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Toxicity for specific target body – repeated exposition:	Not available
Teratogenicity :	Not available
Repeated dose toxicity:	Not available
Irritation if inhaled:	Substance does not have irritable effects
Other information: none	
12: Ecological information	
12.1 Ecotoxicity:	
- LC <sub>50</sub> 96 hr., fish (mg.l <sup>-1</sup> ):	> 18.000 - 32.000 mg/l, Exposure time: 672 h, Species: Poecilia reticulat (guppy)
- EC <sub>50</sub> 48 hr., daphnia (mg.l <sup>.1</sup> ):	5.600 - 10.000 mg/l, Exposure time : 48h, Species: Daphnia magna (Water flea)
- EC₅₀ 72 hr. algae (mg.t¹):	18.000 - 32.000 mg/l, Exposure time: 96 h, Species: Chlorella vulgaris (Fresh water algae), Method: OECD Test Guideline 201
- EC <sub>50</sub> 30 min. bacteria (mg.l <sup>-1</sup> ):	> 1.800 - 3.200 mg/l, Exposure time: 8 h, Species: Bacteria
12.2 Mobility :	Not specified
12.3 Persistence and degradability:	Readily biodegradable. 98%, Exposure time: 2 d Biochemical Oxygen Demand (BOD) : 364 mg/g, 5d Chemical Oxygen Demand (COD) : 480 mg/g
12.4 Bioacumulative potential:	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
12.5 Results of PBT assessment:	This substance is not considered to be persistent, bioaccumu-lating nor toxic (PBT).
12.6 Other adverse effects: The product should not be allowed t	to enter drains, water courses or the soil.

### 13.1 Product:

If recycling or reuse is not practical then the product must be disposed of by authorized personnel in accordance with local, state or national regulations. Never dispose by flushing into the drainage! Waste former is responsible for its sorting and disposal.

# Special safety precaution for recommended waste treatment:

Preferably dispose in independent container.

# 13.2 Packaging:

If recycling or reuse is not practical then packaging must be disposed of by authorized personnel in accordance with local, state or national regulations. Clean packaging with water and dispose of washings in accordance to local regulations. Packaging can be passed to a packaging return system after the cleaning.

# 13.3 Legal waste regulations:

Directive 2008/98/ES

National or regional provisions may be in force !

# **14: Transport information**

14.1 ADR/RID (Land Transport) :	Not classified as hazardous for transportation.
14.2 ADN/ADNR (Inland Waterway Transport):	Not classified as hazardous for transportation.
14.3 IMDG (Marine Transport) :	Not classified as hazardous for transportation.
14.4 ICAO/IATA (Air Transport) :	Not classified as hazardous for transportation.

# 15: Regulatory Information

# 15.1 Health, safety and environmental information on the label : ---

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# 15.2 Chemical Safety Assessment:

Not available.

#### 15.3 National legislation:

Regulation (EC) No. 1907 / 2006 / ES, REACH Regulation (EC) No. 1272 / 2008 / ES, CLP National laws or provisions may be in force !

# 16: Other information

# Changes made in Safety Data Sheet in terms of revision:

Revision of Safety data sheet in terms of avoidance of Directive 67/548/EHS.

### Key or explanation for abbreviations:

 DNEL
 Derived No Effect Level (derived concentration of substance, at which no unfavourable effects occure )

 PNEC
 Predicted No Effect Concentration (prediction of substance concentration, at which no unfavourable effects occure )

PEL Acceptable exposure limit, long-term (8 hours)

### Important literature references and data sources:

SDS of other producers, special literature, ECHA web. site http://apps.echa.europa.eu/registered/registered-sub.aspx )

# Training instructions:

According to Safety Data Sheet.

# Recommended restrictions of use:

Not specified

### Other :

The information contained herein were processed and compiled in accordance with the latest state-of-the-art. Although having been compiled in an utmost good faith, they do not deliver or guarantee any of the product properties, thus they cannot constitute an official base for any contract or legal relation. Various factors may affect the properties under certain conditions. It is the user sole responsibility to assess and consider the accuracy and veracity of the above-indicated information in particular application and/or environment.