# Safety Data Sheet POTASSIUM CARBONATE SOLUTION

Safety Data Sheet dated 04/01/2024 version 01



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

#### 1.1. Product identifier

Trade name: POTASSIUM CARBONATE SOLUTION

UFI: (45 - 50) JC00-Y08F-M009-92VG (50 - 51) 4Q10-209T-H006-WJ6H

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

Recommended use: FOR INDUSTRIAL USE

FOR PROFESSIONAL USE

FOOD ADDITIVE

ANTI-FREEZING AGENT

AGENTS OF pH REGULATORS
RAW MATERIAL FOR ANIMAL FEEDS

PHARMACEUTICAL PRODUCTS

**FERTILIZER** 

Uses advised against: N.A.

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

Company:

ALTAIR CHEMICAL S.r.l.

Via Moie Vecchie 13

56048 Saline di Volterra (PI)

Competent person responsible for the safety data sheet: <a href="mailto:sds@altairchemical.com">sds@altairchemical.com</a>

### 1.4. Emergency telephone number

ALTAIR CHEMICAL S.r.l Phone n. +39-0588-9811

Malta: 112

### **SECTION 2: Hazards identification**



### 2.1. Classification of the substance or mixture

### Regulation (EC) n. 1272/2008 (CLP)

Eye Irrit. 2 Causes serious eye irritation.

STOT SE 3 May cause respiratory irritation.

Skin Irrit. 2 Causes skin irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

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

# **Pictograms and Signal Words**



### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

CODE SHEET SDS-092(1222)12 Page n. 1 of 8

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: POTASSIUM CARBONATE SOLUTION

### Hazardous components within the meaning of the CLP regulation and related classification:

 Qty
 Name
 Ident. Numb.
 Classification
 Registration Number

  $\geq$  45-<=51 POTASSIUM CARBONATE</td>
 CAS:584-08-7 EC:209-529-3
 Skin Irrit. 2, H315; Eye Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
 01-2119532646-36-0010

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with soap and plenty of water.

In case of persistent skin irritation consult a doctor.

In case of eyes contact:

Irrigate eyes with copious amounts of water for at least 10-15 min, holding eyelids apart to ensure thorough rinsing

Protect uninjured eye.

Ask for medical advice.

If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and hazard labelling.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2).

Water.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

#### 5.3. Advice for firefighters

Wear suitable protective clothing (helmet, protective clothings, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Use suitable breathing apparatus .

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### **SECTION 6: Accidental release measures**

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

Provide adequate ventilation.

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Suitable material for taking up: absorbing material, organic, sand

Dispose of the collected material in accordance with the current regulations.

Retain contaminated washing water and dispose it.

#### 6.4. Reference to other sections

See also section 8 and 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Keep away from food, drink and feed.

Always keep in a well ventilated place.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

# **Derived No Effect Level (DNEL) values**

Worker

	Industry	Professional	Route	
POTASSIUM CARBONATE CAS: 584-08-7	10 mg/m3		Human Inhalation	Long Term, local effects
	10 mg/m3		Human Inhalation	Short Term, local effects

Consumer

#### 8.2. Exposure controls

Individual protection measures:

Personal protective equipment selections vary based on potential exposure conditions and working conditions.

The final choice of protective equipment will depend upon a risk assessment.

Worker

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

**Exposure Frequency Remark** 

Eye protection:

Eye glasses with side protection.

Technical reference standard: UNI EN 166

CODE SHEET SDS-092(1222)12

#### Protection for skin:

Not needed for normal use. Anyway, operate according good working practices.

#### Protection for hands:

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.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Use protective gloves that provides comprehensive protection.

Suitable material:

UNI EN 420/UNI EN 374

Butyl caoutchouc (butyl rubber).

PVC (polyvinyl chloride).

#### Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation.

Gas filtering device (DIN EN 141).

#### Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical State: Liquid

Color: N.A. Odour: None

Odour threshold: Not Relevant

pH: 11 (1 g/L) - 11.5 (10 g/L) - 12 (100 g/L)Kinematic viscosity: N.A. ( Data not available. )

Melting point / freezing point: N.A. ( Data not available. )

Initial boiling point and boiling range: 115°C

Flash point: N.A. ( non-flammable )

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A.

Relative density: 1.54 (sol. 50% at 20°C) Solubility in water: 1120 g/L (20°C)

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

### **Particle characteristics:**

Particle size: Not Relevant ( Does not apply to liquid. )

### 9.2. Other information

Miscibility: N.A. Conductivity: N.A.

Explosive properties: ( There are no chemical groups present in the molecule which are associated with these properties ) Oxidizing properties: ( There are no chemical groups present in the molecule which are associated with these properties )

Evaporation rate: N.A.

No other relevant information

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

None in particular.

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

Keep away from copper, brass, light metals.

Acids

Light metals

### 10.6. Hazardous decomposition products

Carbon dioxide

#### **SECTION 11: Toxicological information**

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

### **Toxicological Information of the Preparation**

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315) c) serious eye damage/irritation The product is classified: Eye Irrit. 2(H319)

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: STOT SE 3(H335)

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

### Toxicological information on main components of the mixture:

POTASSIUM CARBONATE a) acute toxicity LD50 Oral Rat > 2000 mg/kg bw

LC50 Inhalation Dust Rat > 4.96 mg/l 4,5h

LD50 Skin Rabbit > 2000 mg/kg bw

b) skin corrosion/irritation Skin Irritant Positive

c) serious eye

Eye Irritant Yes

damage/irritation

h) STOT-single exposure Respiratory Tract Irritant Positive

### 11.2. Information on other hazards

# **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration > = 0.1%

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

### 12.2. Persistence and degradability

N.A

# 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

CODE SHEET SDS-092(1222)12

NΑ

#### 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

#### 12.7. Other adverse effects

N.A.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

# **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

### 14.1. UN number or ID number

NΑ

#### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

N.A.

N.A.

### 14.4. Packing group

N.A.

### 14.5. Environmental hazards

N.A.

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

# 14.7. Maritime transport in bulk according to IMO instruments

N.A.

# **SECTION 15: Regulatory information**

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

Regulation (EU) n. 2020/878

Regulation (EC) n. 1907/2006 (REACH) and subsequent amendments

Regulation (EC) n. 1272/2008 (CLP) and subsequent amendments

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: None.

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

Where applicable, refer to the following regulatory provisions:

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

#### **SECTION 16: Other information**

Code	Description	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
Code	Hazard class and hazard category	Description
<b>Code</b> 3.2/2	Hazard class and hazard category Skin Irrit. 2	<b>Description</b> Skin irritation, Category 2
	<b>5</b> ,	•

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.3/2	Calculation method
3.8/3	Calculation method
3.2/2	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures) BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable

N/D: Not defined/ Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

# Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information

CODE SHEET SDS-092(1222)12 Page n. 8 of 8