

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Potassium Hydrogencarbonate

REACH registration no.: 01-2119532640-48-XXXX

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

General use: Chemical basic material

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification in accordance with Regulation (EC) No 1272/2008 (CLP): This substance is classified as not hazardous.

Label elements:

Labelling (CLP):

Hazard statements: Not applicable

Safety precautions: Not applicable

Other hazards: No risks worthy of mention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical characterisation (substance): $\text{CHKO}_3 = \text{KHCO}_3$

CAS number: 298-14-6

EINECS number: 206-059-0

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4. FIRST AID MEASURES

Description of first aid measures:

Skin contact:	Change contaminated clothing. Remove residues with water.
Inhalation:	Provide fresh air. Seek medical treatment in case of troubles.
Ingestion:	Rinse mouth and drink large quantities of water. Seek medical aid in case of troubles.
Eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No special measures are required.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Special hazards arising from the substance or mixture: No information available.

Advice for fire fighters:

Additional information: Hazchem Code – Do not allow fire water to penetrate into surface or ground water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid generation of dust. Do not breathe dust.

Environmental precautions: Do not empty into drains.

Methods and material for containment and cleaning up: Collect dry and place in appropriate containers for disposal, cleaning.

Reference to other sections: Not required.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Avoid generation of dust. Do not breathe dust.

Conditions for safe storage, including any incompatibilities:

Requirements for storerooms and containers: Keep container tightly closed and dry.

Storage temperature: +2°C up to +25°C. Protect from humidity and water.

Hints on joint storage: Do not store together with solvents or strong acids.

Storage class: 13 = Non-combustible solids

Specific end use(s): No data available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Additional information: Contains no substances with occupational exposure limit values.

Exposure controls: Dust should be exhausted directly at the point of origin.

Occupational exposure controls:

Respiratory protection: In case of dust: Particulates filter P2 according to EN 143.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber-Layer thickness: 0,11 mm.

Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to EN 166.

General protection and hygiene measures: Do not breathe dust. Change contaminated clothing. Wash hands before breaks and after work. Workplace should be equipped with a shower and an eye rinsing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Solid, crystalline	Colour:	White
Odour:	Odourless	Melting point / melting range:	Decomposition >100°C
Flash point / flash point range:	Non-flammable	Ignition temperature:	Non-flammable
Density:	at 20°C: 2,17 g/cm ³	pH value:	at 20°C: 50 g/L: 8,0 – 8,6
Solubility:	Insoluble in alcohol	Water solubility:	at 25°C: 362 g/L
Thermal decomposition:	>100°C	Molecular weight:	100,12 g/mol

10. STABILITY AND REACTIVITY

Reactivity: Refer to chapter 10.3

Chemical stability: No data available.

Possibility of hazardous reactions: No hazardous reactions known.

Conditions to avoid: Protect from excessive heat.

Violent reaction with strong acids: Formation of carbon dioxide. Protect from humidity and water.

Incompatible materials: Acids

Hazardous decomposition products:

Thermal decomposition: Carbon dioxide >100°C

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: LD50 Rat, oral: >2000 mg/kg (IUCLID)

Rabbit, dermal: >2000 mg/kg

LC50 Rat, inhalative: >4880 mg/m³

In case of skin contact: Rabbit: Not an irritant

After eye contact: Rabbit: Not an irritant

General remarks:

NOEL Rat, oral: 180 mg/kg bw/d

NOEL Mouse, oral: 290 mg/kg bw/d

NOAEL Rat, oral: 3000 mg/kg bw/d

Not known to cause sensitisation.

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity: Daphnia toxicity: EC50 Daphnia magna 650 mg/L/48h

Fish toxicity: LC50 Oncorhynchus mykiss 1300 mg/L/96h

Effects on soil microorganisms: NOEC Eisenia sp. 4238 mg/kg soil dw

Water hazard class: 1 = slightly hazardous to water (WGK catalogue number 2077)

Persistence and degradability:

Further details: Methods for the determination of biodegradability are not applicable to inorganic substances.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Other adverse effects:

General information: Do not allow into ground-water, surface water or drains.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Waste key number: 06 03 14 = Wastes from the MFSU of salts and their solutions and metallic oxides.

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging:

Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

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14. TRANSPORT INFORMATION

UN number: Not applicable.

UN proper shipping name: Not restricted.

Transport hazard class(es): Not applicable.

Packing group: Not applicable.

Environmental hazards:

Marine pollutant: Unknown.

Special precautions for the user: No dangerous goods in sense of these transport regulations.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

15. REGULATORY INFORMATION

NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 0 (Minimal)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

Chemical Safety Assessment: For this substance a chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

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