

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

Product identifier Product: Potassium Bicarbonate
CAS: 298-14-6
EC: 206-059-0
REACH: 01-2119532640-48-0001

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

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

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.

Classification in accordance to Directive 67/548/EEC or 1999/45/EC: This substance is classified as not hazardous.

Label Elements:

Labelling according to Regulation (EC) No 1272/2008 (CLP): Not applicable.

Other Hazards: No risks worthy of mention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation (substance): C H K O₃ = KHCO₃

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4. FIRST AID MEASURES

Description of first aid measures:

Skin:	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:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
PPE for responders:	No information available.

Important symptoms and effects: No information available.

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

5. FIRE-FIGHTING MEASURES

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

Reference to other sections: Please see section 1 for emergency contact information. Please see section 8 for Personal Protection Information. Please see section 13 for Disposal Information.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid generation of dust. Do not breathe dust.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and dry.
Storage temperature + 2°C up to + 25°C.
Protect from humidity and water.
Do not store together with solvents or strong acids.
Storage class – 13 Non-combustible solid.

Specific end use(s): No information available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	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 EN143.
Hand protection:	Protective gloves according to EN374.
Glove material:	Nitrile rubber-Layer thickness: 0.11 mm.
Breakthrough time:	>480 min. Observe glove manufacturer's instruction concerning penetrability and breakthrough time.
Eye Protection:	Tightly sealed safety glasses according to EN166.
General protection and hygiene measures:	Do not breathe dust. Change contaminated clothing. Wash hands before breaks and after work. Work place should be equipped with a shower and an eye rinsing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Solid, crystalline white.
Odour:	Odourless
Odour threshold:	No information available.
pH:	at 20°C, 50 g/L: 8.0-8.6
Melting/freezing point:	Decomposition > 100°C
Initial boiling point and range:	No information available.
Flash point:	Non-flammable
Evaporation rate:	No information available.
Flammability (solid/gas):	No information available.
Upper & Lower flammability or explosive limits:	No information available.
Vapour pressure:	No information available.
Vapour density:	No information available.
Relative density (SG):	at 20°C: 2.17 g/cm ³
Solubility:	in soluble in alcohol. In water at 25°C 362 g/L
Partition coefficient:	No information available.
Auto-ignition temperature:	non – flammable
Decomposition temperature:	>100°C
Viscosity:	No information available.
Explosive properties:	No information available.
Oxidising properties:	No information available.
Molecular weight:	100, 12g/mol

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10. STABILITY AND REACTIVITY

Reactivity:	Refer to chapter 10.3
Chemical stability:	No information available.
Possibility of hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	Protect from excessive heat. Violent reactions with strong acids: Formation of carbon dioxide. Protect from humidity and water.
Incompatible materials:	Acids.
Hazardous decomposition products:	Carbon Dioxide, Thermal decomposition > 100°C

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:	LD50 Rat, Oral: >2000 mg/kg Rabbit, dermal: >2000 mg/kg LC50 Rat, Inhalative: >4880 mg/m3
Skin corrosion/irritation:	In case of skin contact: Rabbit: Not an irritant.
Serious eye damage/irritation:	After eye contact: Rabbit: Not an irritant.
Sensitisation:	Not known to cause sensitisation.
Germ cell Mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
STOT – Single exposure:	No information available.
STOT – repeated exposure:	No information available.
Aspiration hazard:	No information available.
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

12. ECOLOGICAL INFORMATION

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:	Methods for determination of biodegradability are not applicable to inorganic substances.
Bioaccumulative potential:	No information available.
Mobility in soil:	No information available.
Results of PBT and vPvB assessment:	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
Other adverse effects:	Do not allow to enter into ground-water, surface water or drains.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

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

Recommendations: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

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: Not dangerous goods in sense of transportation regulations.

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

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No information available.

Chemical Safety Assessment (CSA): 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

ANNEX:

Acronyms:

@ - at

> - less than

< - more than

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

CAS – Chemical Abstracts Service

Cat. – Category

CSA – Chemical Safety Assessment

DNEL – Derived No-Effect Level

EC – Effective Concentration

EC OEL – European Commission Occupational Exposure Limit

EINECS - European Inventory of Existing Commercial Chemical Substances

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

H** - Hazard Statements

IATA – International Air Transport Association

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IMDG – International Maritime Code for Dangerous Goods

L – Litre

LC50 – Lethal Concentration, 50 percent

LD50 – Lethal dose, 50 percent

m³ – metre squared mg – milligram

ml – millilitre

n.o.s. – Not Otherwise Specified

°C – degrees Centigrade

P** - Precautionary Statements

PBT – Persistent, Bioaccumulative and Toxic

pH – Potential of Hydrogen

PNEC – Predicted No-Effect Level

RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

SDS – Safety Data Sheet

SG – specific gravity

UN – United Nations

vPvB – very Persistent, very Bioaccumulative

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.