



Material Safety Data Sheet

Potassium Carbonate

Edition: 21/11/2007

1) Identification of substance/preparation and of the company undertaking

Material Potassium Carbonate
 CAS No 584-08-7
 Company Inoxia Ltd
 45.7 Dunsfold Park
 Stovolds Hill
 Cranleigh
 Surrey
 GU6 8TB
 Tel: 02032 909990
 safety@inoxia.co.uk
 www.inoxia.co.uk

2) Composition

Chemical Composition: Potassium Carbonate

Name	CAS No.	EINECS No.	Hazard sign	R-Phrases
Potassium Carbonate	584-08-7	2095293	Xi	36/37/38

3) Hazard Identification

Hazard symbols Xi (Irritant)
 Risk Phrases R 36/37/38, Irritates eyes, respiratory system and the skin.

4) First Aid Measures

General measures Immediately take off contaminated clothing. Get medical advice.
 After inhalation Fresh air, get medical advice in case of discomfort.
 After skin contact Wash off immediately with soap and water. If skin irritation occurs consult a doctor.
 After eye contact Flush open eyes thoroughly with plenty of water for several minutes and consult ophthalmologist.
 After ingestion Drink diluted lemon juice and induce vomiting as long as affected person is conscious. Call a doctor immediately.

5) Fire Fighting

Suitable extinguishing media CO₂, dry extinguishing powder, water spray. Extinguish larger fire with water spray or alcohol resistant foam.
 Special protective equipment for fire fighting: No special measures necessary.

6) Accidental Release

Personal precautions Wear protective clothing. Avoid dust formation.
 Environmental precautions Prevent product from getting into drains/ surface water / groundwater.
 Methods of cleaning/absorption Remove mechanically and dispose according to Section 13.

7) Handling/Storage

Handling Instructions on safe handling: Avoid dust formation. Store in well closed containers in dry and cool area. Provide adequate ventilation at workplace.

Information of fire and explosion protection

No special measures are necessary.

Requirements for storage areas and containers:

Store container tightly closed, in a dry and cool area. Unsuitable storage containers: aluminum and zinc material.

Advice on storage compatibility:

Do not store together with acids and aluminium salts (NH₃ - development)

Storage Classification: 12 – non-combustible liquids.

VbF-Classification

Not applicable

8) Exposure Controls

For additional information for the technical installations see section 7.

Exposure limit(s): --

Personal protective equipment

General protective and hygiene measures: Immediately take off contaminated clothing. Avoid eye and skin contact. Keep away from food stuff, drinks und animal feed. Wash hands before breaks and after work.

Respiratory protection: Dust mask Hand protection: Protective gloves. Change gloves on a regular basis, especially after intensive contact with the product.

Make sure to use adequate gloves.

Gloves

The gloves must be appropriate for handling this product.

Eye protection

Protective goggles.

Body protection

Protective clothing.

9) Physical/Chemical Properties

Form	Solid
Colour	White
Odour	Odourless
Melting temperature	Approx. 891°C
Boiling temperature	Not applicable
Flash point	Not applicable
Ignition temperature	Product is non-ignitable.
Explosion risk	Product is not explosive.
Density	2.428 g/cm ³ at 20°C
Bulk density	700-1200 kg/m ³ at 20°C
Solubility in water	1120 g/l at 20°C
pH-Value	11.5 – 12.5 at 20°C

10) Stability/Reactivity

Thermal decomposition No decomposition when stored and handled as directed.

Products to be avoided Acids and metals.

Hazardous reactions Reactions with light metals in connection with humidity under development of hydrogen. Reactions with base metals under

hydrogen development. Reacts immensely with acids under development of carbon dioxide at room temperature.

Strong hygroscopic properties Store in dry area.

11) Toxicological Info

Acute oral toxicity	LD50: > 2000 mg/kg Species: rat
Irritant effect on the skin	Irritates skin and mucous membranes
Irritant effect on the eyes	Irritating
Sensitization	Non sensitizing effect known

12) Ecological Information

This product is a base. Neutralization is necessary before letting product enter the sewage system in sewage plants.

Eco-toxicological effect	Eco-toxic effects can be expected due to the alkaline reactions (increase of the ph-value).
--------------------------	---

Water Tox. Class	1, slightly hazardous
------------------	-----------------------

Do not let undiluted or large amounts of product enter ground water, waterways or sewage system.

13) Disposal Consideration

Product	Product must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility. Product cannot be disposed of with household waste.
Contaminated packaging	Treat like product itself. Suggested cleaning product: water, if necessary add detergent

14) Transport Information

Not classified as dangerous according to transport regulations.

15) Regulatory Information

Labelling in accordance with EG guidelines: requires labelling

Hazard symbol	Xi Irritant
---------------	-------------

R-Phrases	R 36/37/38: Irritates eyes, respiratory system and skin
-----------	---

S-Phrases	S 37/39: Wear adequate gloves and goggles / face protection.
-----------	--

	S 22: Do not inhale dust
--	--------------------------

	S 26: In case of eye contact, immediately rinse with water and consult ophthalmologist
--	--

Water risk class	1, slight hazardous
------------------	---------------------

16) Other Information

This information is for health and safety guidance only, is not a material specification, and does not constitute the user's own assessment of suitability, and workplace risk as required by any other Health and Safety legislation. It is accurate to the best of our knowledge and belief, but since the conditions of handling and use are outside our control we make no guarantee of results, and assume no liability for damages incurred by use of this material.

This product should be stored, handled and used in accordance with good hygiene practices

a
n
d

i
n

c
o
n