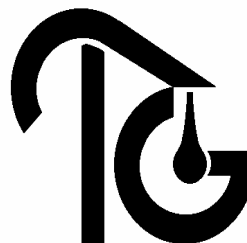


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PRODUCT DATA SHEET

(This booklet incorporates the Specification and M.S.D.S.)

PRODUCT POTASSIUM CARBONATE

CAS NO. 584-08-7
TARIFF NO. 283640000
U.N NO. N/R
EINECS NO. 209-529-3
IMCO CLASS
HAZARDS IRRITANT

SPECIFICATION REFERENCE	PC378/2	DATE JUL 94
REFERENCE NO.	POCA/2	DATE OCT 06
PREVIOUS EDITION.	POCA/1	DATE JUL 94

PRODUCT SPECIFICATION				
Product Name		Potassium Carbonate		
Alternative Name				
Product Grade				
SPECIFICATION				
Chemical Characteristics	Min	Max	Average	Test Method
K2O Expressed As K ₂ CO ₃ (%)	99.5	100	99.8	NFT – 29007
KOH Free (%)	0.1	0.2	0.15	NFT – 29007
Humidity (%)	0.05	0.25	0.17	2 hrs at 250oC braised
Na in Na ₂ O (%)	0.3	0.5	0.49	Atomic Absorption Spectrophotometer
Chlorides In Cl (ppm)	5	80	40	NFT – 20374
Iron in ppm	0.5	3.5	2	NFT – 20373
SO ₄ ²⁻ (ppm)		<5		Gravimetry
Total Sulphur in SO ₄ ²⁻ (ppm)		<20		Gravimetry
Mercury in Hg (ppm)		<0.1		Atomic Absorption Without Flame
Physical Characteristics				
Formula (M=138.2)	K ₂ CO ₃			
Appearance	White pearls			
Solubility In Water at 20°C	112g for 100 ml			
Boiling Point	890oC			
Density	2.29			
Apparent Density	1.3			
Particle Size	Min		Max	Average
Passing Through 0.2mm Sieve	0.5		5	2
Passing Through 0.5mm Sieve	10		35	20
Passing Through 0.8mm Sieve	45		75	50
Passing Through 1.0mm Sieve	80		95	90
Passing Through 1.25mm Sieve	90		100	95
Passing Through 1.4mm Sieve	100		100	100
NOTES				
Exclusion of Liability				
Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.				
Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.				
Tennants accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied, the application, adaptation or processing of the products described herein, the use of other materials in lieu of Tennants materials or the use of Tennants materials in conjunction with such other materials.				
Health and Safety				
A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.				

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product:	Potassium Carbonate		
COMPANY:	TENNANTS DISTRIBUTION LIMITED		
	Hazelbottom Road	Botany Way	
	Cheetham	Purfleet	
	Manchester	Essex	
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	Fax No. 44(0)161 203 4298	Tel No. 44(0)1708 860074	
	Emergency Tel No.	01865 407333	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formulae:	K ₂ CO ₃
Chemical Family Name:	
CAS No.:	584-08-07
EINECS No.:	209-529-3

3. HAZARDS IDENTIFICATION

Main Hazards	Irritating for eyes, respiratory system and skin
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4. FIRST AID MEASURES

First Aid – Eyes	Thoroughly flush with huge amounts of water for at least 15 minutes. Keep the eyes open and consult an ophthalmologist
First Aid – Skin	Remove contaminated clothing. Wash affected area with soap and water and rinse thoroughly
First Aid – Ingestion	When victim is fully conscious, give water to drink. Never give anything to drink to any unconscious person. Get medical assistance
First Aid – Inhalation	Keep victim away from any contamination source and move to fresh air. Get medical assistance immediately

5. FIRE FIGHTING MEASURES

General	Potassium carbonate and its decomposition products do not burn or risk combustion
Extinguishing media	Cannot burn. Use appropriate fire extinguishing medium for surrounding material
Protective Equipment	Wear protective respiratory equipment and clothing

6. ACCIDENTAL RELEASE MEASURES

Personal Protection	Prevent from dust material inhalation. Use appropriate ventilation system. Avoid contact with skin and eyes. See also Section 8
Environmental Protection	Do not allow material to be released to the environment
Spills/Leaks	Sweep up, then place in a suitably labelled container
Clean Up/Decontamination	Thoroughly flush with water after neutralising

7. HANDLING AND STORAGE

Handling	
Technical Measures	Ventilation
Precautionary Measures	Avoid any dust generation
Storage Conditions Required	Keep material stored in a cool and dry area, away from any incompatible material, such as acids, strong oxidising agents, chlorine trifluoride or magnesium, solvents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	Avoid inhalation of the product. Use suitable respiratory equipment in event of high concentration
Eye Protection	Wear safety glasses
Hand And Skin Protection	Wear PVC gloves and protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	White micro pearls
Odour	No distinct odour
Melting Point	891°C (1636°F)
pH	12 (10g/100 ml of water)
Solubility	High water solubility: 1120 g/l Insoluble in organic solvents

Specific Density	2.29 g/cm ³
Apparent Density	1.3 g/cm ³
10. STABILITY AND REACTIVITY	
Stability	Stable under normal circumstances
Conditions/Materials to Avoid	Acids, strong oxidising agents, chlorine trifluoride, magnesium, lime
Hazardous Decomposition Products	None reported
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity	
Ingestion	Harmful LD50 Oral Rat 1870 mg/kg
Eyes	Irritant effect
Skin	Skin irritation upon long lasting or repeated contact
Inhalation	Irritating for mucous membranes, cough, dyspnoea
Ingestion	Irritating for mouth, throat, oesophagus and digestive tract mucous membranes
12. ECOLOGICAL INFORMATION	
Mobility	No data available
Persistence	No data available. Not expected to be persistent
Bio Accumulation	No data available. Not expected to bio accumulate
Ecotoxicity	LC50 Fish 200 mg/l
13. DISPOSAL CONSIDERATIONS	
Disposal of product	Disposal should be made in accordance with all local and national regulations
14. TRANSPORT INFORMATION	
Not classified as dangerous for transport	
15. REGULATORY INFORMATION	
Classification	Xi Irritant
R Phrases	R36/37/38 Irritating for eyes, respiratory system and skin
S Phrases	S22 Do not breathe dust S26 In case of contact with eyes, rinse immediately with plenty of water and get medical assistance
16. OTHER INFORMATION	
The Specification has been amended slightly. The Safety Data Sheets have been revised throughout to comply to current regulations	
Revision Date: 23/10/06	