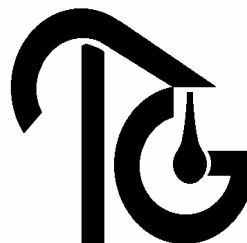


# TENNANTS DISTRIBUTION LIMITED

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## PRODUCT DATA SHEET

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

<b>PRODUCT</b>	<b>CAROAT® POTASSIUM MONOPERSULPHATE</b>	
CAS NO.	7069-362-8	
TARIFF NO.		
U.N NO.	3260	
EINECS NO.	274-778-7	
IMCO CLASS	8	
HAZARDS	HARMFUL CORROSIVE	
SPECIFICATION REFERENCE	OXONE 1	DATE APR 98
REFERENCE NO.	CAROAT/3	DATE SEPT 05
PREVIOUS EDITION.	CAROAT/2	DATE MAR 05

<b>PRODUCT SPECIFICATION</b>	
Product Name	Caroat ®
Alternative Name	Potassium Monopersulphate
Product Grade	
<b>SALES SPECIFICATION</b>	
Appearance	White, crystalline powder
Characterization	Odourless, solid oxidizer
Active oxygen content	4.5% min
Moisture Content	0.5% max
<b>NOTES</b>	
<p><b>Exclusion of Liability</b></p> <p>Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.</p> <p>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.</p> <p>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.</p> <p><b>Health and Safety</b></p> <p>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.</p>	

## SAFETY DATA SHEET

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

Product:	Caroat® Potassium Monopersulphate		
COMPANY:	TENNANTS DISTRIBUTION LIMITED		
	Hazelbottom Road	Botany Way	
	Cheetham	Purfleet	
	Manchester	Essex	
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature	Technically Pure Salt		
Chemical Name	CAS No.	EC No.	Classification
Potassium Peroxomonosulphate	7069-362-8	274-778-7	C, Xn
Concentration %	ca. 100		
			R Phrases
			R22, R34

### 3. HAZARDS IDENTIFICATION

Main Hazards	C Corrosive, Xn Harmful
R Phrases	R22 Harmful if swallowed R34 Causes burns

### 4. FIRST AID MEASURES

General Advice	Take off all contaminated clothing immediately. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. If you feel unwell, seek medical advice (show the label where possible)
Eye Contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Skin Contact	Wash off immediately with soap and plenty of water. Obtain medical attention
Ingestion	Clean mouth with water and drink plenty of water afterwards. If a person vomits when lying on his back, place him in the recovery position. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label
Inhalation	Remove to fresh air. Call a physician immediately

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media	High volume water jet
Specific Hazards During Fire Fighting	Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses
Protective Equipment For Fire Fighters	Wear self contained breathing apparatus and protective suit
Further Information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas
Environmental Precautions	Should not be released to the environment. Do not contaminate water. Do not allow material to contaminate ground water system. If the product contaminates rivers and lakes or drains inform respective authorities
Methods For Clean Up	Remove mechanically and with care (e.g. with clean polyethylene plastic shovel). Avoid dust formation. Wash small residues with plenty of water
Additional Information	Never add other substances or waste material to product residue. Move product residue to a safe place and dispose of properly

### 7. HANDLING AND STORAGE

Advice On Safe Handling	Product is hygroscopic. Never pour product residue back into storage container. Risk of decomposition
Protection Against Fire & Explosion Storage Requirements	Keep away from combustible material. Avoid dust formation
	Electrical installations/working materials must comply with the technological

Further Information	safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. No smoking
Advice On Common Storage	Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Protect from moisture
Storage Temperature	Store apart from other dangerous and incompatible substances <30°C
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
Engineering Measures	Provide adequate ventilation
Personal Protective Equipment	
Respiratory Protection	Respirator with ABEK filter
Hand Protection	Skin should be washed after contact Butyl Rubber 0.5mm >=8h
Eye Protection	Tightly fitting safety goggles. Face protection
Skin And Body Protection	Protective suit. Remove and wash contaminated clothing before re-use
Hygiene Measures	Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
Physical State	Solid White
Safety Data	
pH	2.3 1% in water
Melting Point/Range	Not applicable, decomposes before melting
Density	1.1 g/cm <sup>3</sup> at 20°C
Water Solubility Partition Co Efficient (n-octanol/water)	250 g/l at 20°C
<b>10. STABILITY AND REACTIVITY</b>	
Conditions To Avoid	Keep away from heat and sources of ignition. Protect from moisture
Materials To Avoid	Accelerators, strong acids and bases, heavy metal salts, reduction mediums. Avoid impurities (e.g. rust, dust, ash), risk of decomposition
Hazardous Decomposition Products	Build up of dangerous/toxic fumes possible in cases of fire/high temperature
Thermal Decomposition	>80°C SADT (UN test H.4) SADT possible at temperatures >60°C (product in delivery form)
Hazardous Reactions	General information: Even small amounts of moisture or impurities can noticeably reduce SADT Stable under recommended storage conditions
<b>11. TOXICOLOGICAL INFORMATION</b>	
Acute Oral Toxicity	LD50 Rat 1000 – 2000 mg/kg
Acute Inhalation Toxicity	LC50 Rat 4h >5 mg/l
Acute Dermal Toxicity	LD50 Rabbit >11000 mg/kg
Sensitisation	Product is not sensitising Buehler Test Guinea Pig: Product is not sensitising Magnusson-Kligman Test
Ames Test	Not mutagenic in AMES Test
<b>12. ECOLOGICAL INFORMATION</b>	
Biodegradability	Readily biodegradable
Ecotoxicity Effects	
Toxicity To Fish	LC50 32 – 56 mg/l 96h
Acute Toxicity For Aquatic Plants	EC50 >1 mg/l
Acute/Chronic Toxicity Aquatic Invertebrates	EC50 Daphnia 24h 5.3 mg/l
Water Contaminating Class (Germany)	WGK 1; slightly water endangering VwVwS (German Water Pollution Authority) Appendix 4
<b>13. DISPOSAL CONSIDERATIONS</b>	
Product Disposal	Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations
<b>14. TRANSPORT INFORMATION</b>	
ADR/RID	
Class	8
Packaging Group	III
Classification Code	C2
Risk No.	80
UN No.	3260
Description Of The Goods	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium

IMDG	Peroxomonosulphate)
Class	8
Packaging Group	III
UN No.	3260
EmS	F-A, S-B
Marine Pollutant	No
Description Of The Goods	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium Peroxomonosulphate)
ICAO/IATA	
Class	8
Packaging Group	III
UN NO.	3260
Description Of The Goods	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (contains Potassium Peroxomonosulphate)

### 15. REGULATORY INFORMATION

Information According To EEC Directive	
R phrases	C Corrosive Xn Harmful R22 Harmful if swallowed
S phrases	R34 Causes burns S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Other Regulations	Take note of Directive 92/85/EEC on the safety and health at work of pregnant workers

### 16. OTHER INFORMATION

Text of R Phrases Mentioned In Section 2	
R22 Harmful if swallowed	
R34 Causes burns	
The Safety Data Sheets have been revised throughout (including classification). The Specification remains the same	
Revision Date 12/09/05	