TENNANTS DISTRIBUTION LIMITED

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PRODUCT DATA SHEET

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

PRODUCT	BORAX PE	NTAHYDR	RATE
CAS NO.	11130-12-4		
TARIFF NO.			
U.N NO.	N/R		
EINECS NO.	2155-404		
IMCO CLASS	N/R		
HAZARDS			
SPECIFICATION REFERENCE		BB08/3	DATE FEB 96
REFERENCE NO.		BOPE 1	DATE FEB 96
PREVIOUS EDITION.			DATE

PRODUCT SPECIFICATION		
Product Name	Borax Pentahydrate	
Alternative Name Product Grade		

PRODUCT SPECIFICATION TECHNICAL GRANULAR

CHEMICAL SPECIFICATION	TYPICAL	GUARANTEED Min	Max
B_2O_3	48.5%	48.0%	49.0%
Na ₂ O	21.6%	21.28%	21.8%
Insolubles in water mg/kg	100	80	150
SIEVE SPECIFICATION			
Cumulative retained			
120 microns	1.03%		3.0%
75 microns	2.50%		5.0%

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

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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.

	SAFE	TY DATA SHEET
	STATE	SUBSTANCE/PREPARATION AND COMPANY
1. IDE	NTIFICATION OF THE	SUBSTANCE/TREETING
Product:	BORAX PENTAHYDRATE	NLIMITED
COMPANY:	TENNANTS DISTRIBUTIO	Botany Way
	Hazelbottom Road	Purfleet
	Cheetham	Essex
	Manchester	RM19 1SN
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	MPOSITION/INFORM	IATION ON INGREDIENTS
Chemical Formulae		
Chemical Family N	ame.	11130-12-4
CAS No.: EINECS No.:		2155-404
	IAZARDS IDENTIFICA	
	IALARDS IDENTIFICA	None known
Main Hazards		None
Health Effects - Ey		None
Health Effects - Sk	in	None
Health Effects - Ing	gestion	None
Health Effects - Inl	RST AID MEASURES	None
	RSI AID MEASURES	Wash with plenty of water
First Aid - Eyes		Wash with plenty of water Wash with plenty of water
First Aid - Skin		Rinse mouth with water. If symptoms develop seek medical attention
First Aid - Ingestic	n:	Remove to fresh air, keep warm and at rest. If irritation persists seek
First Air - Inhalation	on	medical attention
	IRE FIGHTING MEASI	
1 .		Water, foam, CO2 or dry chemical
Extinguishing Med	lia	
Hazards		None Appropriate protective clothing
Protection		
6. A	CCIDENTAL RELEAS	E MEASURES
Personal		Isolate the contaminated area and instruct others to keep away
Environmental		Contain and control the spillage on site
Spillage		Scoop up or vacuum material and place in a suitable container for
	AND THE AND STOP	disposal as a non hazardous waste
	ANDLING AND STOR	Due care must be taken and any damaged packages must be isolated
Handling		and repaired
		Must be stored in covered dry conditions
Storage	VECUEE CONTROL	S/PERSONAL PROTECTION
Occupation Expos	sure Limits	O1A 1 1112
		1 mg m3 STEL 15 mins
		LD50 (oral, rat) 2025 mg/kg None required unless there is heavy dust occurrence in which case a
Respiratory Prote	ction	protective mask is recommended
Hand Protection		Gloves Safety glasses with side shields or goggles
Eye Protection		parety Riggaes with side silience of Popping

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical State	Free flowing granules	
Colour	White	
Odour	Odourless 0.0 (0.10) 1. (1.10) 1. (2.70) 0.32 (3.70)	
pH Value	Odouriess 9.24 (1.0% solution at 20 ^{\to} C) 9.26 (0.1% solution at 20 ^{\to} C) 9.32 (3.7%	
pri vanue	solution at 20 ^{\(\triangle C\)}	
Viscosity	Not applicable	
Boiling Point	1575 ^o C	
Melting Point ([□] C)	741 [°] C	
Vapour Pressure	Not applicable	
Vapour Density	Not applicable	
Bulk Density	980 kg/m3 at 20 [©] C	
Density	1810 kg/m3 at 20 [□] C	
Solubility	in water 3.7% at 20 [°] C	
5014011119	in glycerol 40.2% at 20 [°] C	
	in methanol 15.2% at 25 ^{°°} C	
	in acetone 0.5% at 25 ^{°C}	
10. STABILITY AND REA	CTIVITY	
Stability	Stable	
Conditions to avoid	None	
Hazardous Decomposition Products	None	
Thermal Decomposition	Borax Pentahydrate is stable under ordinary conditions. When heated	
Thermal Decomposition	shows 62 ^o C it loses water of crystallisation without liquelying and	
·	turns into dihydrate at about 160°C. With increasing temperature	
!	dehydration proceeds until anhydrous borax is formed with fusion	
	point of 741 [©] C	
11. TOXICOLOGICAL IN	FORMATION	
Short Term		
Eyes	Pain, redness	
Skin	Redness	
Ingestion	Nausea, vomiting, diarrhoea. Possible systemic effects	
Inhalation	Cough, nausea, vomiting	
12. ECOLOGICAL INFOR	RMATION	
General General	The environmental effects of boron are minimal and are most nouceable	
General	in the world of plants. Minimal quantities of this element is essential	
	plant growth and hence boron is added to fertilizers used in boron	
	deficient soils However, concentrations as low as 1ppm boron could	
	be critical for sensitive plants (lemon, elm etc) and 10ppm for semi	
	tolerant plants (mustard, radish). There is no permanent effect as boron	
	is readily soluble in water.	
13. DISPOSAL CONSIDER	ATIONS	
Product Disposal	In accordance with Local Authority guidelines	
14. TRANSPORT INFORM	IATION	
UK Transport Information	Not classified as a dangerous substance for transport	
15. REGULATORY INFO	RMATION	
Labelling Information	Not classified as a dangerous substance	
16. OTHER INFORMATION	ON	