**TENNANTS DISTRIBUTION LIMITED** 

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## **PRODUCT DATA SHEET**

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

PRODUCT	hydantoi	bromochloro- n 1,3 dichloro- n and 1,3 dichl	1
CAS NO.	MIXTURE	3	
TARIFF NO.	380890-00	-0	
U.N NO.	3085		
EINECS NO.			
IMCO CLASS			
HAZARDS	OXIDISIN CORROSI DANGER		NVIRONMENT
SPECIFICATION REFERENCE		BR/1	DATE DEC 01
REFERENCE NO.		BR/2	DATE JUN 08
PREVIOUS EDITION.	· · ·	BR/1	DATE DEC 01

thyl-hydantoin,

## **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.

		SAFET	Y DATA S	HEET		
1. IDEN	<b>TIFICATION OF</b>	THE SUBS	STANCE/PRF	PARAT	TION AND COMPANY	
Product:	Bromisan					
COMPANY:	TENNANTS DISTR	RIBUTION L				
	Hazelbottom Road		Botany Way			
	Cheetham		Purfleet			
	Manchester		Essex			
	M8 0GR		RM19 1SN			
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	Emergency Tel No.	01865	407333			
	Email:	msds@	tennantsdistribut	ion.com		
2. COMP	OSITION/INFOR	MATION	<b>ON INGRED</b>	IENTS		
Ingredient		% Conc	CAS No.	Class.	R Phrases	
	-dimethy lhy dantoin	50 - 100	126-06-7	Xn	22,31,34,43,50	
(BCDMH)	annowly my autom	20 100				
1,3 Dichloro-5, 5- (DCDMH)	dimethylhyantoin	25- 50	118-52-5	Xn	8,22,31,34,43,50	
1,3-Dichloro-5-et (DCEMH)	hyl-5-methylhydantoin	10-25	89415-87-2	0	8,22,23,34,43,50	
3. HAZA	ARDS IDENTIFICA					
Eye Contact		Causes bur	ns, possible irrev	ersible dan	nage	
Skin Contact			rns, may sensitise		-	
Ingestion		Harmful, c	auses burns			
Inhalation		Causes bur	ms			
Environment		Very toxic	to aquatic organi	sms		
4. FIRST	<b>AID MEASURES</b>					
First Aid – Eyes					15 minutes. Seek medical attention	
First Aid – Skin			ontaminated cloth	ing. Unde	r shower for 15 minutes. Seek medical	
The Atl To set		attention				
First Aid - Ingesti					water. Seek immediate medical attention	
First Aid – Inhala 5. FIRE 1	FIGHTING MEAS		iresn air. Keep v	varm and a	at rest. Seek immediate medical attention	
			-1			
Extinguishing Me			chemical, foam	1		
Special Hazards of	1 Product			produce t	oxic fumes of: hydrogen chloride, hydrogen	
Destastiva Equina	ant for Eins Eishting	,	xides of nitrogen		newstern and more to allow allow the trans	
	nent for Fire Fighting DENTAL RELEAS			eatning ap	paratus and protective clothing	
				1.0		
Transport Emerge	ncy Action				ervices immediately. No naked flames. No	
		smoking. upwind	warn other road	users. K	eep public away from danger areas. Stay	
General			anaglas alores o	nd duct fil	ton most	
General		Use safety goggles, gloves and dust filter mask Avoid generating dust or contaminating with combustible material				
		Carefully shovel spills into appropriate containers for recovery or disposal				
					with dilute Alkaline Sodium Bisulphate or	
			niosulphate Solution		with under Alkanne Sourum Discipliate of	
7. HAND	LING AND STOR				· · · · · ·	
Technical Protect			f sun and heat	tore in a c	ool, well ventilated place. Avoid contact	
- Johniour Frotoot			sing material		oon, wen ventuated place. Avoid contact	
Fire And Explosion Protection				es. Keep a	away from oxidising materials. Avoid	
		deposition	of dust		- <b>-</b>	
	SURE CONTROLS					
Respiratory Prote					ed by this process, wear dust filter mask	
Protective Gloves		Wear rubber gloves when handling				
Eye Protection		When handling, wear safety goggles or face shield				
Od Durant I	Equipment					
Other Protective I						
Industrial Hygien					material. Do not get into eyes or on skin.	
		Avoid cont	tact with skin, eye	s and cloth	material. Do not get into eyes or on skin. ning. Wash oneself immediately and take off n foodstuffs. Wash hands at every break time	

9. PHYSICAL AND CH	IEMICAL PROPERTIES		
Appearance	Off white briquette		
Odour	Weakly stringent		
Melting Point	$120.0 - 148.0^{\circ}C$		
pH Value	3.60 (10.0 g/l)		
Solubility In Water	5.40 g/l (25°C)		
Flash Point	$142.^{\circ}$ C Cleveland (ASTM D92)		
10. STABILITY AND R			
Thermal Decomposition	Decomposition approximately 170.0°C		
Stability	Stable		
Incompatibility With	Strong acids, bases, oxidising materials		
11. TOXICOLOGICAL			
Acute Oral Toxicity (LD50)	Rat, 477 mg/kg		
Skin Irritation	Rabbit, corrosive		
12. ECOLOGICAL INF			
Fish Toxicity (LC50)	Rainbow trout < 1mg/l 96h		
Biological Degradation	>95.0%		
Duration	18-42 days EPA		
Water Danger/Protection	WGK (self classification) 2. Dangerous to water		
13. DISPOSAL CONSID			
Product Disposal	Dispose of in compliance with all federal, state and local laws and regulations.		
Troduct Disposal	Incineration is the preferred method		
14. TRANSPORT INFO	RMATION		
UN Number	3085		
Proper Shipping Name	Oxidiser, Oxidising Solid, N.O.S. (Brominated Dialhyhydantoine)		
Packaging Group	III		
ADR Classification	5.1 + 8		
ADR HIN	58		
IMCO Class	5.1 + 8 + Marine P ollutant		
Hazchem Class	IW		
IMDG Page Number	5163 & 5055		
Marine Pollutant	Yes 'P'		
Air Transport	5.1/31b		
15. REGULATORY INF			
Labelling Information	O Oxidising		
Suboning information	C Corrosive		
	N Dangerous for the environment		
R phrases	R8 Contact with combustible material may cause fire		
r	R22 Harmful if swallowed		
	R31 Contact with acids liberates toxic gases		
	R34 Causes burns		
	R43 May cause sensitisation by skin contact		
	R50 Very toxic to aquatic organisms		
S phrases	S1/2 Keep locked up and out of reach of children		
·	S25 Avoid contact with eyes		
	S26 In case of contact with eyes, rinse immediately with plenty of water and seek		
	medical advice		
	S28 After contact with skin wash immediately with plenty of water		
	S36/37/39 Wear suitable protective clothing, gloves and eye/face protection		
	S41 In case of fire and/or explosion, do not breathe fumes		
	S45 In case of accident, or if you feel unwell, seek medical advice immediately		
	(show the label where possible)		
	S60 This material and its contents must be disposed of as hazardous waste		
	S61 Avoid release to environment		
CAS No.	MIXTURE		
Customs Tariff	380890-00-0		
16. OTHER INFORMAT			
The Safety Data Sheets have been re	vised throughout. The Specification remains the same		
Revision Date: 04/06/08			