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HARMFUL

MSDS Ref: TR
211

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16/02/04

1. PRODUCT NAME:

TRIBOR 20

HSE No. 6242

2. COMPOSITION

Hazardous ingredient	CAS No.	Weight %	Symbols	Risk Phrases
Disodium Octoborate Tetrahydrate	12280-03-04	20	None	None
1,2-Propanediol		28	None	None
Ethylene Glycol and other inert materials	107-21-1	52	Xn,Harmful	R22

3. HAZARD IDENTIFICATION



Irritating to eyes and skin.
Harmful if swallowed

HARMFUL

4. FIRST AID

CONTACT WITH SKIN	Wash with plenty of water or soap and water.
CONTACT WITH EYES	Wash out with water for several minutes. Seek medical advice.
INGESTION	Wash out mouth with water and give water to drink. Do not induce vomiting. If patient feels unwell, seek medical attention.
INHALATION	Remove to fresh air.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	As appropriate to surrounding fire
SPECIAL PROTECTIVE EQUIPMENT	No particular requirements

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection if large amounts of dust are generated.
ENVIRONMENTAL PRECAUTIONS	No environment hazard.
CLEAN-UP PROCEDURES	Sweep up and place in container for re-use or disposal to landfill.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Observe normal industrial hygiene methods.

STORAGE INFORMATION Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves, (neoprene/PVC or synthetic rubber). Eye/face protection to BS2092 for chemical resistance and coveralls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with P2 or P3 cartridge.

Engineering controls of operator exposure may replace PPE if it provides equal or a higher degree of protection (ie. Local exhaust ventilation, non-atomising spray etc.).

Wash hands and skin before and after work. Do not apply to surfaces where food is prepared, stored or eaten. Remove or cover all foodstuffs before application. Do not apply to hot surfaces or unprotected electrical equipment or naked flames. Keep unprotected persons and animals away from treated surfaces for 48 hours or until surfaces are dry or covered. Avoid excessive contamination of coveralls and launder regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, pale liquid	Oxidising properties	None
Odour	None	Vapour pressure	30Pa (25°C)
pH	9 (1% in water)	Relative density	1.18 – 1.20
Boiling point	>190°C	Bulk density	Not Relevant
Melting point	Not Relevant	Viscosity	No Data
Flash point	>100°C	Solubility	Soluble in water
Autoignition temperature	>370°C	Partition coefficient	No data
Explosive properties	LEL s.6%, UEL 12.5%	Other data	

10. STABILITY/REACTIVITY

STABILITY Stable

CONDITIONS TO AVOID Protect from moisture (product is hygroscopic)

MATERIELS TO AVOID Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Low acute oral toxicity LD₅₀ (by calculation) >5000mg/kg

12.ECOLOGICAL INFORMATION

MOBILITY	Mobile in the soil.
DEGRADABILITY	Not biodegradable
ACCUMULATION	There is a likelihood of bioaccumulation or biomagnification.
ECTOTOXICITY	Boron is an essential micronutrient for plant life, but phytotoxic in large amounts.

13.DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Dispose of by landfill in a commercial site, in accordance with local and national regulations.
DISPOSAL OF PACKAGING:	As for product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15.REGULATORY INFORMATION

CLASSIFICATION Harmful if swallowed.

This product is approved under the control of pesticides regulations 1986 for use by Professional Operators as directed. HSE No. 6242.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16.OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

Abbreviations: OES – occupational exposure standard. STEL – short-term exposure limit. LTEL – long term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper explosive limit.