

MATERIAL SAFETY DATA SHEET

Eye

Fire Fighting

Accidental Release

Handling and Storage

Measures

Measures

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Ingestion

Flash Point

Usual Fire and

Leakage

Precautions

Storage

Explosion Hazard

In case of Spillage or

Extinguishing Media

Fire Fighting Procedures

Identification

		Manufacturer Name	Mahim (W) Mumbai 400 016 Office: +91.22.2444 0141 / +91.22.2444 0142
		Product Name	Toxishield DB (Denatonium Benzoate)
		Trade Name(s)	Toxi Shield DB, Denatonium Benzoate
		Chemical Name	phenylmethyl-[2- [(2,6-dimethylphenyl)amino]- 2-oxoethyl]- diethylammonium benzoate, Denatonium Benzoate
		Chemical Formula	C ₂₈ H ₃₄ N ₂ O ₃
		Mol Wt	446.581
2	Composition Information on Ingredients	Ingredient Name	Denatonium Benzoate
		Percentage	> 99%
		CAS Number	3734-33-6
3	Hazards Identification	Emergency Overview	EXTREMELY BITTER. Causes moderate to severe oral irritation. In confined area dust may cause headache.
		Potential Health Effects	
		Inhalation	May cause irritation to upper respiratory track.
		Skin	May cause mild irritation/redness.
		Eye	May cause irritation/redness.
		Ingestion	Likely to cause irritation, nausea, vomiting.
4	First Aid Measures	Inhalation	Remove from exposure immediately, and introduce to fresh air.
		Skin	Remove contaminated clothing. Wash exposed areas immediately and thoroughly with mild soap and water.
1	1	<u> </u>	1 B

consult doctor.

> 190 deg C

immediate medical help.

CO2, Dry Chemicals, Foam

Avoid prolonged breathing of dust. Avoid prolonged/repeated dermal exposure.

Use in areas with adequate ventilation.

Do not leave in open or semi open condition.

Nikita Transphase Adducts (P) Ltd,

401/402, New Udyog Mandir #2, Mogul Lane,

Do not rub eyes. Flush thoroughly with water. If irritation persists

If possible spit out, and clean mouth. Do not induce vomiting. Seek

decomposition/combustion products may be hazardous. Approved

When exposed to excessive heat and open flames, will emit irritant

proper equipment. Avoid release to sewers or environment. Place

Keep away from extremely hot areas, and keep containers sealed.

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self-contained, fully covered breathing apparatus must be used.

fumes and/or smoke. No explosive hazards are expected

Handle in area suitable for containment of spills. Mop up with

recovered material in properly marked containers for disposal.

During emergency conditions, exposure to thermal

Keep from excessive heat, sources of fire or sparks.

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8	Exposure Controls / Personal Protection	Skin	Use appropriate clothing/ impermeable gloves etc to prevent exposure.
		Ventilation	Maintain adequate flow of fresh air to maintain exposure levels minimal.
		Respiration	If adequate ventilation not possible, use approved respiratory protection equipment.
		Eye	Approved goggles to be used at all times.
9	Physical & Chemical	Appearance	White Flowing Powder or Granules
	Properties	Odor	Odor free
		Solubility in Water	Approx 5 % at room temperature
		Melting Pt	163-170C (331-338F)
		Specific Gr	0.5-0.8
10	Stability & Reactivity	Materials to Avoid	Acids.
		Conditions to Avoid	Exposure to humidity can cause clumping.
		Hazardous Decomposition Products	Normal hydrocarbon combustion products, CO, CO2, NOx
11	Toxicology	Oral LD50	> 500 (mg/kg) Rat oral
		Dermal	> 2000 (mg/kg)
		Inhalation	> 1500 (mg/kg)
12	Ecological Information		Do not discharge into drains or the environment; dispose to authorized chemical waste collection point.
13	Disposal Consideration		Incinerate in authorized facility or Dispose according to local law.
14	Transport Information	Classification	Not Hazardous for transport (According to the current addition of IATA regulation)
15	Regulatory Information	CLP GHS symbols	
		R Phrases	R22 Harmful if swallowed.
		S Phrases	S2 S13 Keep out of the reach of children. Keep away from food, drink and animal feeding S24 S36 Avoid contact with skin. S37 Wear suitable protective clothing. Wear suitable gloves. If swallowed, seek medical advice immediately and show this container or label.
16	Other Information		This product is extremely bitter and used as a denaturant for ethanol, meg, antifreeze and several other applications.

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