

MATERIAL SAFETY DATA SHEET

Revision date: Mar 2019

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1	Identification		Nikita Transphase Adducts (P) Ltd, 401/402, New Udyog Mandir #2, Mogul Lane,
		Manufacturer Name	Mahim (W) Mumbai 400 016
			Office: +91.22.2444 0141 / +91.22.2444 0142
		Product Name	Toxishield DB (Denatonium Benzoate Granules)
		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	Ingredient Name	Denatonium Benzoate
	Information on	Percentage	> 99%
	Ingredients	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.
		Еуе	Do not rub eyes. Flush thoroughly with water. If irritation persists consult doctor.
		Ingestion	If possible spit out, and clean mouth. Do not induce vomiting. Seek immediate medical help.
5	Fire Fighting	Flash Point	> 190 deg C
	Measures	Extinguishing Media	CO2, Dry Chemicals, Foam
		Fire Fighting Procedures	During emergency conditions, exposure to thermal decomposition/combustion products may be hazardous. Approved self-contained, fully covered breathing apparatus must be used.
		Usual Fire and Explosion Hazard	When exposed to excessive heat and open flames, will emit irritant fumes and/or smoke. No explosive hazards are expected.
6	Accidental Release Measures	In case of Spillage or Leakage	Handle in area suitable for containment of spills. Mop up with proper equipment. Avoid release to sewers or environment. Place recovered material in properly marked containers for disposal.
7	Handling and Storage	Precautions	Avoid prolonged breathing of dust. Avoid prolonged/repeated dermal exposure. Use in areas with adequate ventilation. Keep from excessive heat, sources of fire or sparks.
		Storage	Keep away from extremely hot areas, and keep containers sealed. Do not leave in open or semi open condition.

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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	S2Keep out of the reach of children.S13Keep away from food, drink and animal feedingS24stuffs.S36Avoid contact with skin.S37Wear suitable protective clothing.S46Wear 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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