

## MATERIAL SAFETY DATA SHEET

Revision date: Aug 2019

1	Identification	Manufacturer Name	Nikita Transphase Adducts (P) Ltd T-96 Tarapur MIDC, Boisar, 401 50	
			Office: +91.22.2444 0141 / +91.22	
		Product Name	Toxishield DB - 25 MEG	
		Trade Name(s)	ToxiShield DB, Denatonium Benzo	ate
		Chemical Name	Denatonium Benzoate in Mono Eth	ylene Glycol
		Chemical Formula	C <sub>28</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub> in C <sub>2</sub> H <sub>4</sub> (OH) <sub>2</sub>	
		Mol Wt	158 (avg)	
2	Composition	Ingredient Name	Denatonium Benzoate	MEG
	Information on	Percentage	>25 %	>72%
	Ingredients	CAS Number	3734-33-6	102-21-1
3	Hazards Identification	Emergency Uverview		NOUS. In confined area vapours
		Potential Health Effects	Short Term	Long Term
	HEALTH 2 0 REACTIVITY	Inhalation	May cause irritation to upper respiratory track.	Not Available
	$\sim$	Skin	May cause mild irritation/redness.	Not Available
	PROTECTION: E	Eye	May cause irritation/redness.	Not Available
		Ingestion	Data Not Available. Safe to assum irritation, nausea, vomiting may occur.	e Not Available
4	First Aid Measures	Inhalation	Remove from exposure immediately, and introduce to fresh air.	
		Skin	Remove contaminated clothing. W and thoroughly with mild soap and	water.
		Eye	Do not rub eyes. Flush thoroughly consult doctor.	
		Ingestion	If possible spit out, and clean mout immediate medical help.	h. Do not induce vomiting. Seek
5	Fire Fighting	Flash Point	NA	
	Measures	Flammability Limits	IEL : N.A. UEL : N.A.	
		Extinguishing Media	CO2, Dry Chemicals, Foam	
		Fire Fighting Procedures	During emergency conditions, expo decomposition/combustion product self-contained, fully covered breath	ts may be hazardous. Approved
		Usual Fire and Explosion Hazard	When exposed to excessive heat a fumes and/or smoke. No explosive	and open flames, will emit irritant
6	Accidental Release Measures	In case of Spillage or Leakage	Handle in area suitable for containment of spills. Mop us 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 vapors. 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 are Do not leave in open or semi-open	

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8	Exposure Controls /	01	Use appropriate clothing/ impermeable gloves etc to prevent	
_	Personal Protection	Skin	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	Clear Water-white to Slightly Yellowish Liquid	
	Properties	Odor	Slightly sweetish	
		Solubility in Water	Miscible in all ratios	
		Flash Pt	Above 110C	
		Freezing Pt	Below -10C	
		Specific Gr	1.1-1.2	
		Initial BP	Above 190C	
		Vap. Pres	NA	
10	Stability & Reactivity	Materials to Avoid	None known.	
		Conditions to Avoid	None known.	
		Hazardous Decomposition Products	Normal hydrocarbon combustion products, CO, CO2, NOx	
11	Toxicology	Oral LD50	approx 4700 (mg/kg) Rat oral	
		Dermal	NA	
		Inhalation	NA	
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	EC labeling symbols		
	Information	R Phrases	R22 Harmful if swallowed.	
		S Phrases	<ul> <li>S2 Keep out of the reach of children.</li> <li>S13 Keep away from food, drink and animal feeding stuffs.</li> <li>S24 Avoid contact with skin.</li> <li>S36 Wear suitable protective clothing.</li> <li>S37 Wear suitable gloves.</li> <li>S46 If swallowed, seek medical advice immediately and show this container or label.</li> </ul>	
16	Other Information		This product is extremely bitter and used as a denaturant for MEG, antifreeze and several other applications.	

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