Lorsban[®] Advanced Insecticide: Supplement to **Bulk Storage and Handling Guide**

This product-specific information supplements the Dow AgroSciences "Bulk Storage and Handling Guide". Use these documents together to understand the requirements for a bulk storage facility of this product. The Bulk Storage and Handling Guide is available at http://www.dowagro.com/rc/steward/handling.htm

Suck Storage and Handling Guide is available at <u>http://www.dowagro.com/rc/steward/handlin</u>

General Storage Comments

Lorsban Advanced is a milky white, emulsion in water formulation that has significant storage advantages over low flash point solvent formulations.

Cholinesterase Monitoring

Cholinesterase is an enzyme found in the blood and the central nervous system. Like other organophosphates, chlorpyrifos inhibits the action of cholinesterase.

Because of this, Dow AgroSciences recommends that personnel who handle or work with chlorpyrifos occasionally (as opposed to those who work with it daily) have their blood cholinesterase levels (both plasma and red cell) measured before beginning any work with this material. The purpose of this is to establish a baseline unique to each person. Subsequent blood (plasma) cholinesterase levels should be measured annually and immediately after any significant exposure has occurred.

For additional information, please contact Dow AgroSciences Occupational Health at (317)-337-7300 and request the booklet "Cholinesterase Testing Guideline For Chlorpyrifos".

	Pro	duct D	ensity	/ VS.	Ten	nperatu	Ire		
Temperature °F (°C)	20 (-7)	30 (-1)	40 (4)	5	0 (10)	60 (16)	70 (21)	80 (27)	90 (32)
Density (lb./gal.)		9.46	9.43		9.39	9.36	9.33	9.29	9.26
Flash Point, N	NFPA R	ating,	Stora	ge T	emp	erature	e, and a	Signal	Word
Flash Point NFPA 704 Diam		704 Diamor	ond Ratings		Min. Storage Temperature			EPA Signal Word	
°F (°C)	Health	Flammabili	ty Read	ctivity	°F (°C)				
>212 (>100)	2	1	1			25 (-4)		Warning	
observed when the product is thawed. Material / Product Compatibility			Ratin g		Comment				
304 and 316 Stainless Steel, Aluminum, Tin			OK	Non-	Non-corrosive				
Mild Steel,			OK	OK f	OK for most applications. Slight corrosion in liquid phase.				
Copper, Yellow Brass, Zinc			OK	OK for most applications. Moderate corrosion in liquid phase.					
Viton, Teflon, Nylon, Polypro (high density and cross linked (Tygon).			OK						
Polyethylene (low density)			OK		OK for most applications. Swells slightly. Must be fluorinated for long term storage.				
Vellumoid Gasketing			Caution	OK f	OK for some applications. Shrinks moderately.				
EPDM			Caution	OK f	OK for some applications. Swells moderately.				
Buna N, Neoprene, Silicone Red Rubber, Rigid PVC			No	DON	DO NOT USE. Severe swelling or deterioration.				

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Bulk Tank Material of Construction and Requirements					
Material of Construction	Stainless steel is preferred. A code rating is not required. Polyethylene tanks are discouraged due to durability. However, if used, they must be new due to potential permeation by previous products.				
	NOTE: The previous product may not be a herbicide.				
Venting Requirements	Tanks must have self-closing working vents (Pressure/Vacuum Relief Vent).				
Couplers	Standard couplers are acceptable.				
Mixing Requirement	Crystallization or separation has not been an issue; however, circulation capability is required.				
Refillable Container Handling					
DOT	This product is regulated by US Department of Transportation for various modes of transport. Use only UN/DOT approved containers.				
Material of Construction	Must be DOT Packing Group III or better. Stainless steel preferred, poly is allowed. <u>NOTE:</u> <u>The previous product may not be a herbicide.</u>				
Mixing	Crystallization or separation has not been an issue; although long term storage in refillable containers is not recommended.				
Couplers	Standard couplers are allowed.				

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