Material Safety Data Sheet				
Chemtura				
VITAVAX® - 34 SEED TREATMENT FUNGICIDE				
sion: 1.3	Revision Date: 07/28/2010 Print Date: 09/06/20			
TION 1. PRODUCT AND C	COMPANY IDENTIFICATION			
Product name:	VITAVAX® - 34 SEED TREATMENT FUNGICIDE			
Product Use Description:	Seed Treatment			
Company:	Chemtura Corporation 199 Benson Road Middlebury, CT 06749 United States of America			
	Telephone: 866-430-2775			
Emergency telephone:	CHEMTREC: (24 hours) 800-424-9300			
	Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898			
	For additional emergency telephone numbers see section 16 of the Safety Data Sheet.			
Prepared by:	Product Safety Department (US) +1 866-430-2775			
	+011-886-2-2712-5668 MSDSRequest@chemtura.com			
CTION 2. HAZARDS IDENT Emergency Overview	IFICATION			
	IFICATION			
Emergency Overview CAUTION!	Diour: tan Odour: slight			
Emergency Overview CAUTION!				
Emergency Overview CAUTION! Form: liquid Cc	<u>olour</u> : tan <u>Odour</u> : slight : Harmful by inhalation.			
Emergency Overview CAUTION! Form: liquid Cc Hazard Summary	olour: tan Odour: slight : Harmful by inhalation. Toxic to aquatic organisms. : THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD			

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Potential Health Effects			
Primary Routes of Entry	: Skin contact		
Filling Koules of Entry	Eye contact Inhalation		
Aggravated Medical Condition	: None known.		
Inhalation	: Harmful by inhalation.		
Skin	: This product is not expected	to cause skin irritation.	
Eyes	: May cause mild irritation of t	he eyes.	
Ingestion	: May cause: - nausea Gastrointestinal irritation		
Environmental Effects Environmental Effects CTION 3. COMPOSITION/INI	: Toxic to aquatic organisms.		
Environmental Effects			
Environmental Effects		CAS-No.	Weight percent
Environmental Effects CTION 3. COMPOSITION/INI Hazardous components		CAS-No. 5234-68-4	Weight percent 34 %
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol	FORMATION ON INGREDIENTS	5234-68-4 107-21-1	
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol		5234-68-4 107-21-1	34 %
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol	FORMATION ON INGREDIENTS	5234-68-4 107-21-1	34 %
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol Ingredients not precisel TION 4. FIRST AID MEASU	FORMATION ON INGREDIENTS	5234-68-4 107-21-1	34 %
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol Ingredients not precise	FORMATION ON INGREDIENTS	into fresh air.	34 %
Environmental Effects TION 3. COMPOSITION/INI Hazardous components Component carboxin Ethylene glycol Ingredients not precisel TION 4. FIRST AID MEASU First aid procedures	FORMATION ON INGREDIENTS	into fresh air. inficant exposure. hysician.	34 %



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Eye contact	: Rinse thoroughly with plent If eye irritation persists, con	y of water, also under the eyelids sult a specialist.	3.
Ingestion	Obtain medical attention.		r.
Notes to physician			
Risks	: Risk of product entering the	lungs on vomiting after ingestion	n.
Treatment	: Do not induce vomiting: cor	ntains petroleum distillates and/o	r aromatic solvents.
TION 5. FIRE-FIGHTING MEA	SURES		
Flammable properties			
Flash point	: 221 °F (105 °C) Method: Tag closed cup		
Ignition temperature	: 640 °F (338 °C)		
Fire fighting			
Suitable extinguishing media	: Extinguishing media - large Alcohol-resistant foam (on small fires) Dry chemical Carbon dioxide (CO2)	fires	
Unsuitable extinguishing media	: High volume water jet		
Further information	: Fight fires from a safe dista Move containers from fire a Use water spray to cool und Prevent fire extinguishing w water system.	rea if possible.	water or the ground
Protective equipment and pro	ecautions for firefighters		
Special protective equipment for fire-fighters	: In the event of fire, wear se Full protective flameproof cl	lf-contained breathing apparatus lothing	
	3 / 11		



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SECTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions : Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. : Toxic to aquatic life. Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Methods for containment / : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, Methods for cleaning up earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Additional advice : Keep in properly labelled containers. Dispose of rinse water as waste water. SECTION 7. HANDLING AND STORAGE Handling Handling procedures : Handle and open container with care. Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing, gloves and eye/face protection. Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling. Keep container closed when not in use. Storage Requirements for storage : Keep containers tightly closed in a dry, cool and well-ventilated place. areas and containers Keep only in the original container. Other data : Stable at normal ambient temperature and pressure. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION **Exposure Guidelines** Components with workplace control parameters Components / CAS-No. Value / Basis / Control Further information Update parameters Ethylene glycol С 50 ppm 107-21-1 125 mg/m3 4/11 SAP 6.0 SDS Number: 00000003702





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		OSHA P0	I	
		1989-01-19		
		C	100 mg/m3	
		ACGIH		
		2007-01-01		
ngineering measures				
ngineering measures	Ensi vent		nnot be returned to the	
ersonal protective equipme	ent			
ye protection	: Safe	ety glasses with side-shi	elds	
and protection	: Che	Chemical resistant protective gloves		
kin and body protection	Rem To p Rub	 Long sleeved clothing Remove and wash contaminated clothing before re-use. To protect against splashes from pouring: Rubber or plastic boots Rubber or plastic apron 		
espiratory protection	vapo	respirator when perform our of the product. pirator with combination		ng potential exposure to ulate (EN 141).
lygiene measures	Ensu Wea Do r Avoi Do r Was Keej	dle in accordance with g ure adequate ventilation ar suitable gloves and ey not inhale aerosol. Id contact with skin, eyes not eat, drink or smoke w sh thoroughly after handl p working clothes separa sh contaminated clothing	, especially in confined re/face protection. s and clothing. when using this product ing. ately.	d areas.
	Avoi Do r Was Keej	d contact with skin, eyes not eat, drink or smoke w sh thoroughly after handl p working clothes separa	vhen using this produc ing. ately.	:t.

Appearance

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Form Colour	: liquid : tan		
Odour	: slight		
Safety data			
Flash point	: 221 °F (105 °C) Method: Tag closed cup		
Ignition temperature	: 640 °F (338 °C)		
рН	: 7-9		
Boiling point/boiling range	: 216 °F (102 °C)		
Density	: 1.16 g/cm3 at 68 °F (20 °C)		
Water solubility	: Note: dispersible		
Evaporation rate	: 0.11 Note: (Butyl acetate = 1)		
SECTION 10. STABILITY AND R	EACTIVITY		
Conditions to avoid	: Remarks: Heat.		
Materials to avoid	: Remarks: Strong acids and strong bases		
Hazardous decomposition products	: Note: Carbon monoxide Carbon dioxide (CO2) nitrogen oxides (NOx) Sulphur oxides		
Hazardous reactions	: Hazardous polymerisation does not occur.		
SECTION 11. TOXICOLOGICAL INFORMATION			
Acute oral toxicity	: LD50: > 5,000 mg/kg Species: rat		
Acute inhalation toxicity	: LC50: > 0.74 mg/l Exposure time: 4 h Species: rat		
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Version: 1.3 Revision Date: 07/28/2010 Print Date: 09/06/2011 Acute dermal toxicity : LD50: > 5,000 mg/kg Species: rabbit : Species: rabbit Skin irritation Result: No skin irritation Eye irritation : Species: rabbit Result: No eye irritation Sensitisation : Species: guinea pig Result: Did not cause sensitization on laboratory animals. **Toxicology Assessment** CMR effects : Carcinogenicity: negative Mutagenicity: negative Reproductive toxicity: negative **12. ECOLOGICAL INFORMATION** Toxicity to fish carboxin : LC50: 2.3 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) flow-through test LC50: 3.6 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) flow-through test Toxicity to daphnia and other aquatic invertebrates. carboxin : EC50: > 57 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) flow-through test

Toxicity to algae

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Version: 1.3	Revision Date: 07/28/2010	Print Date: 09/06/20		
		1 mil Dale. 00/00/20		
carboxin	 EC50: 1.9 mg/l Exposure time: 96 h Species: Chlorella vulgaris (Fresh water algae) Growth inhibition EC50: 0.48 mg/l Exposure time: 120 h 			
Toxicity to fish (Chronic toxicity				
carboxin	: NOEC: 0.32 mg/l Exposure time: 21 d Species: Cyprinus carpio (Carp)			
Toxicity to daphnia and other a	quatic invertebrates. (Chronic toxicity)			
carboxin	: NOEC: 0.32 mg/l			
	Exposure time: 17 d Species: Daphnia magna (Water flea)			
Biodegradability				
carboxin	: Remarks: Not readily biodegradable.			
Further information on ecolo ECTION 13. DISPOSAL CONSID				
Further information	 Dispose of waste material in compliance with all federal local regulations. Waste must be classified and labelled prior to recycling disposal. Pesticide wastes are toxic. Do not contaminate ponds, waterways or ditches with used container. 	g or		
ECTION 14. TRANSPORT INFOR	RMATION			
DOT				
UN-Number	: 3082			
	Environmentally hazardous substances, liquic	d, n.o.s.		
	: (Carboxin)			
Class	÷ 9			
Packing group ERG Code	: III : 171			
AP 6.0	8 / 11 SDS Number: 00	0000003702		



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ΙΑΤΑ		
<u>IATA</u> UN-Number	: 3082	
	 Environmentally hazardous substance, liquidade 	uid nos
Description of the goods	(Carboxin)	au, 11.0.3.
Class	: 9	
Packing group	: []]	
	·	
<u>IMDG</u>		
UN-Number	: 3082	
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUB	STANCE, LIQUID, N.O.S.
1 5	(Carboxin)	, , ,
Class	: 9	
Packing group	:	
EmS Letter 1	÷ m ÷ F-A	
EmS Letter 2	S-F	
Marine pollutant	: yes	
1	Carboxin	
OSHA Hazards	This material is hazardous under the criteria of the For Communication Standard 29CFR 1910.1200.	ederal OSHA Hazard
The components of this proc REACH	luct are reported in the following inventories:	
TSCA	All substances in this product are exempt from TSCA under FIFRA (Federal Insecticide Fungicide Rodantie	
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DSL	Note: This product is registered under the Pest C therefore exempt from WHMIS supplier labeling a read entire MSDS and product label for safety pre	and MSDS requirements. Please		
SECTION 16. OTHER INI Further information HMIS Classification				
	Flammability: 0 Reactivity: 0			
NFPA Classification	Fire Hazard: 0 Reactivity Hazard: 0			
Latin America:	Brazil +52 113 7	11 91 44		

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+52 555 004 87 63

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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