

MSDS Number: 102000018618 MSDS Version 1.1 Revision Date: 06/23/2008

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name MSDS Number EPA Registration No. BELT[™] SC INSECTICIDE 102000018618 264-1025

Bayer CropScience 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day) For Product Information call: 1-866-99BAYER (1-866-992-2937)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name

Flubendiamide 1,2-Propanediol Trade Secret Ingredient(s) <u>CAS-No.</u> 272451-65-7 57-55-6 Average % by Weight 39.00 1.35

SECTION 3. HAZARDS IDE	NTIFICATION
NOTE: Please refer to Section Emergency Overview	on 11 for detailed toxicological information. Caution! Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.
Physical State	liquid
Odor	weak aromatic
Appearance	off-white
Routes of Exposure	Ingestion, Skin Absorption
Chronic or Delayed Long-Term	This product or its components may have target organ effects.
Potential Environmental Effect	Toxic to aquatic invertebrates.

SECTION 4. FIRST AID MEASURES

General

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.



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Еуе	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to Physician Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	No flash point - Determination conducted up to the boiling point.
Autoignition Temperature	435 °C / 815 °F
Suitable Extinguishing Media	Water, Foam, Carbon dioxide (CO2), Dry chemical
Fire Fighting Instructions	Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.



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Additional Advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE			
Handling Procedures	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.		
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.		
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.		
	Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.		
Min/Max Storage Temperatures	Recommended maximum transport/storage temperature: 38 °C / 100 °F The 30-day storage temperature average must not exceed the recommended maximum.		
SECTION 8. EXPOSURE C	ONTROLS / PERSONAL PROTECTION		
General Protection	Follow all label instructions. Train employees in safe use of the product.		
	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.		
Eye/Face Protection	Safety glasses with side-shields		
Hand Protection	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)		
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.		
Respiratory Protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.		
Exposure Limits	This product contains material which are Trade Secret and may have Occupational Exposure Limits. If more information is required, call the product information number listed in Section 1.		



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Flubendiamide 1,2-Propanediol	272451-65-7 57-55-6	OES BCS* WEEL TX ESL TX ESL TX ESL TX ESL	TWA ST ESL ST ESL AN ESL AN ESL	0.5 mg/m3 10 mg/m3 20 ug/m3 500 ppm 2 ug/m3 50 ppm
		TXESL	AN ESL	50 ppm

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white
Physical State	liquid
Odor	weak aromatic
рН	6.5 (100 %)
Specific Gravity	1.230 at 20 °C
Density	1.23 g/cm ³

SECTION 10. STABILITY AND REACTIVITY

Hazardous Reactions No dangerous reaction known under conditions of normal use. Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredient, flubendiamide.

Acute Oral Toxicity female rat: LD50: > 2,000 mg/kg

Acute Dermal Toxicity rat: LD50: > 4,000 mg/kg



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Acute Inhalation Toxicity	rat: LC50: > 2.6 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths rat: LC50: > 10.4 mg/l Exposure time: 1 h
	Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
Skin Irritation	rabbit: No skin irritation.
Eye Irritation	rabbit: No eye irritation.
Sensitization	guinea pig: Non-sensitizing.
Chronic Toxicity	Flubendiamide caused liver and/or thyroid effects in chronic studies in rats and dogs.

Assessment Carcinogenicity

Flubendiamide was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH None. NTP None. IARC None. OSHA None.	
Reproductive & Developmental Toxicity	REPRODUCTION: Flubendiamide was not a primary reproductive toxicant in a two-generation reproduction study in rats. Reproductive effects were observed only at doses that caused systemic toxicity in parental animals.
	DEVELOPMENTAL TOXICITY: Flubendiamide was not a developmental toxicant in rats and rabbits.
Neurotoxicity	Flubendiamide was not a neurotoxicant in acute and developmental neurotoxicity screening studies in rats.
Mutagenicity	Flubendiamide was not genotoxic in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION



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Environmental Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label. Do not apply when weather conditions favor runoff or drift.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Container Disposal	Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION: Not regulated for Transportation

FREIGHT CLASSIFICATION: Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

This product contains material(s) which are Trade Secret and are on various Regulatory Lists. These material(s) are not listed below. If more information is required, call the product information number listed in Section 1.

EPA Registration No. 264-1025

US Federal Regulations

1,2-Propanediol

TSCA list

57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.



US State Right-To-Know Ingredients 1,2-Propanediol	57-55-6	MN, RI
Canadian Regulations Canadian Domestic Substance List 1,2-Propanediol	57-55-6	
Environmental CERCLA None. Clean Water Section 307 Priority Pollutants None. Safe Drinking Water Act Maximum Contaminant Levels None.		

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1Health - 1Flammability - 0Reactivity - 0Others - none0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Section 8: Exposure Limits

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