



Material Safety Data Sheet
QUICK BAYT SPRAY 8X1KG BOX BLK

MSDS Number: 102000008440
 MSDS Version 1.0
 Revision Date: 10/05/2006

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name QUICK BAYT SPRAY 8X1KG BOX BLK
MSDS Number 102000008440
EPA Registration No. 432-1455

Bayer Environmental Science
 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: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	10.00
Synthetic amorphous silica	112926-00-8	1.11

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful if swallowed. Avoid contact with skin, eyes and clothing. Highly toxic to aquatic invertebrates. Highly toxic to bees.

Physical State granular
Odor weak characteristic
Appearance white to beige
Routes of Exposure Ingestion, Skin contact, Eye contact
Chronic or Delayed Long-Term This product or its components may have target organ effects.

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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Eye	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.

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

Autoignition Temperature	345 °C / 653 °F
Explosiveness	Not explosive
Fire and Explosion Hazards	In the event of fire the following can be released: hydrogen chloride (HCl) hydrogen cyanide (hydrocyanic acid) carbon monoxide (CO) nitrogen oxides (NOx)
Suitable Extinguishing Media	water spray, carbon dioxide (CO2), foam, sand
Fire Fighting Instructions	Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. In the event of fire and/or explosion do not breathe fumes. Use breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with spilled product or contaminated surfaces. Wear personal protective equipment. Unprotected persons must be kept away.
Methods for Cleaning Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.



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Additional Advice Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling Procedures Use only in area provided with appropriate exhaust ventilation.
 Handle and open container in a manner as to prevent spillage.

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.
 Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.
 Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing.

Min/Max Storage Temperatures Do not transport or store above 40 °C / 104 °F

SECTION 8. EXPOSURE CONTROLS / 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.

Engineering Controls Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Eye/Face Protection safety glasses

Hand Protection PVC or nitrile rubber gloves

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



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Synthetic amorphous silica	112926-00-8	ACGIH	TWA	10 mg/m3
		OSHA Z1A	TWA	6 mg/m3
		NIOSH	REL	6 mg/m3
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		OSHA Z1	PEL	15 mg/m3
		Form of Exposure		Total dust.
		Z3	TWA	15 millions of particles per cubic foot of air
		Form of Exposure		Respirable fraction.
		Z3	TWA	50 millions of particles per cubic foot of air
		Form of Exposure		Total dust.
		Z3	TWA	5 mg/m3
		Form of Exposure		Respirable fraction.
		Z3	TWA	15 mg/m3
		Form of Exposure		Total dust.
		US CA OEL	TWA PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		US CA OEL	TWA PEL	10 mg/m3
		Form of Exposure		Total dust.
		US CA OEL	TWA PEL	5 mg/m3
Form of Exposure		Respirable fraction.		
US CA OEL	TWA PEL	10 mg/m3		
Form of Exposure		Total dust.		
US CA OEL	TWA PEL	5 mg/m3		
Form of Exposure		Respirable fraction.		
US CA OEL	TWA PEL	10 mg/m3		
Form of Exposure		Total dust.		
Z3	TWA	20 millions of particles per cubic foot of air		
Z3	TWA	0.8 mg/m3		
Remarks		The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.		
Sucrose	57-50-1	ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of Exposure		Respirable.
		NIOSH	REL	10 mg/m3
		Form of Exposure		Total
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure		Respirable fraction.
		OSHA Z1	PEL	15 mg/m3
Form of Exposure		Total dust.		



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OSHA Z1A	TWA	5 mg/m3
Form of Exposure	Respirable fraction.	
OSHA Z1A	TWA	15 mg/m3
Form of Exposure	Total dust.	
US CA OEL	TWA PEL	5 mg/m3
Form of Exposure	Respirable fraction.	
US CA OEL	TWA PEL	10 mg/m3
Form of Exposure	Total dust.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	granular
Odor	weak characteristic
Bulk Density	Pour - 0.69 g/mL; Tap - 0.74 g/mL
Melting / Freezing Point	181 °C / 358 °F
Water solubility	dispersible

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

The acute dermal LD50 has been bridged from the technical-grade active ingredient, imidacloprid. The remaining acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient.

Acute Oral Toxicity	female rat: LD50: > 2,000 mg/kg
Acute Dermal Toxicity	male/female rat: LD50: > 5,000 mg/kg
Acute Inhalation Toxicity	Requirement waived due to the physical nature and proposed use pattern of the product.
Skin Irritation	rabbit: No skin irritation.
Eye Irritation	rabbit: Minimally irritating.



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Sensitization	guinea pig: Non-sensitizing.
Subchronic Toxicity	Test sub-chronic data.
Chronic Toxicity	In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.

Assessment Carcinogenicity

In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

ACGIH

None.

NTP

None.

IARC

OSHA

None.

Reproductive & Developmental Toxicity **REPRODUCTION:** In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

Neurotoxicity Neurotoxicity studies in rats showed slight behavioral and activity changes only at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish Rainbow trout (*Oncorhynchus mykiss*)
LC50: 211 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient imidacloprid.

Toxicity to Aquatic Plants *Desmodium subspicatus*
Growth rate
EC50: > 10 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient imidacloprid.

Acute Toxicity to Aquatic Invertebrates Water flea (*Daphnia magna*)
EC50: 85 mg/l



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Exposure time: 48 h
The value mentioned relates to the active ingredient imidacloprid.

Environmental Precautions

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. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

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 Do not re-use empty containers. Empty remaining contents. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for Transportation

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1455

US Federal Regulations

TSCA list

None.

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



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harm.

US State Right-To-Know Ingredients

Synthetic amorphous silica 112926-00-8 CA, IL, MN, RI

Canadian Regulations

Canadian Domestic Substance List

Synthetic amorphous silica 112926-00-8

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 - 1 Flammability - 0 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 10/05/2006

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