

Bayer CropScience Limited		MATERIAL SAFETY DATA SHEET <i>(As per Schedule 9, Rule 17 of the Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 Amendment 2003)</i>	
COCKROACH GEL			
MSDS NO. : 4316974	ISSUE NO. : 01	DATE OF ISSUE : 01.08.2005	PAGE 1 OF 7
1. CHEMICAL IDENTITY			
1.1	PRODUCT NAME / TRADE NAME : COCKROACH GEL		
1.2	CHEMICAL CLASSIFICATION	Phenyl pyrazole, Insecticide	
1.3	CHEMICAL NAME	: Fipronil	
1.4	SYNONYMS	: --	
1.5	FORMULA	: C₁₂H₄Cl₂F₆N₄OS	M.W: 437.15
1.6	C.A.S. NO.	: 120068-37-3	
1.7	U.N. NO.	: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR	
1.8 REGULATED IDENTIFICATION			
1.8.1	SHIPPING NAME CODES/LABEL	: Transport Information: Not dangerous goods	
		Hazardous components which must be listed on the label: FIPRONIL	
		Classification: Does not require a hazard warning label, but the normal safety precautions for handling of chemicals must be observed.	
		WHO-classification: III (Slightly hazardous)	
		R Phrases: R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
		S Phrases: Not Available.	
1.8.2	HAZCHEM NO.	: 2Y	
1.8.3	HAZARDOUS WASTE ID NO.	: 29	
1.9	HAZARDOUS INGREDIENTS	: Fipronil	C.A.S. No. 120068-37-3 % 0.05
2. PHYSICAL AND CHEMICAL DATA			

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2.1	PHYSICAL STATE	:Solid	
2.2	APPEARANCE	:Gel.	
2.3	ODOUR	:Brown.	
2.4	SPECIFIC GRAVITY / DENSITY (WATER = 1) (g/cm ³)	:ca. 1.27 at 20 °C	
2.5	VAPOUR PRESSURE AT 20 °C	:Not Available.	
2.6	VAPOUR DENSITY (AIR=1)	:Not Available.	
2.7	BOILING RANGE/POINT °C	:Not Available.	
2.8	MELTING/FREEZING POINT °C	:Not Available.	
2.9	SOLUBILITY	:Not Available.	
2.10	pH	:5.0 – 6.0 at 100 g/l	
3. FIRE AND EXPLOSION HAZARD DATA			
3.1	FLAMMABILITY	:Not Available.	
3.2	FLASH POINT. (°C)	:Not Available.	
3.3	AUTO - IGNITION TEMP. (°C)	:Not Available.	
3.4	UPPER EXPLOSION LIMIT (% BY VOLUME)	:Not Available.	
3.5	LOWER EXPLOSION LIMIT (% BY VOLUME)	:Not Available.	
3.6	TDG FLAMMABILITY	:Not Available.	
3.7	EXPLOSION SENSITIVITY TO IMPACT	:Not Available.	
3.8	EXPLOSION SENSITIVITY TO STATIC ELECTRICITY	:Not Available.	
3.9	HAZARDOUS COMBUSTION PRODUCTS	:Not Available.	
3.10	HAZARDOUS POLYMERISATION	:Not Available.	

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3.11 CUMBUSTIBLE LIQUID		:Not Available.	
3.12 EXPLOSIVE MATERIAL		:Not Available.	
3.13 CORROSIVE MATERIAL		:Not Available.	
3.14 FLAMMABLE MATERIAL		:Not Available.	
3.15 OXIDISER		:Not Available.	
3.16 PYROPHORIC MATERIAL		:Not Available.	
3.17 ORGANIC PEROXIDE		:Not Available.	
3.18 OTHERS		:Not Available.	
4. REACTIVITY DATA			
4.1 CHEMICAL STABILITY		:Stable under normal conditions. Extremes of temperature and direct sunlight to be avoided.	
4.2 INCOMPATIBILITY WITH OTHER MATERIAL		:None.	
4.3 REACTIVITY		:Not Known.	
4.4 HAZARDOUS REACTION PRODUCTS		:No hazardous reactions when stored and handled according to prescribed instructions.	
5. HEALTH HAZARD DATA			
5.1 ROUTS OF ENTRY		:Eye and or skin contact, Inhalation, Ingestion.	
5.2 EFFECTS OF EXPOSURE / SYMPTOMS		:Restlessness, Anxiety, Tremor.	
5.3 EMERGENCY TREATMENT		:Remove victim from exposed area to fresh air immediately. Remove contaminated clothing and shoes immediately. wash affected area with soap and mild detergent and large amounts of water. If entered in to eyes wash with large amounts of water immediately, occasionally lifting upper and lower lids. if ingested rinse mouth. Get medical attention immediately.	
5.4 TLV (ACGIH)		:Not Available.	

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5.5	STEL	:Not Available.	
5.6	PERMISSIBLE EXPOSURE LIMIT	:Not Available.	
5.7	ODOUR THRESHOLD	:Not Available.	
5.8	LD 50 (ROUTES & SPECIES)	:Oral rat : > 4,400 mg/kg Dermal rat : > 5,000 mg/kg	
	LC 50 (ROUTES & SPECIES)	:Inhalation rat : Not relevant because of low dust formation.	
		TOXICOLOGICAL INFORMATION Skin irritation: Slight irritant effect - does not require labeling (rabbit) Eye irritation: Slight irritant effect - does not require labeling (rabbit) Sensitization: Non-sensitizing (guinea pig) Method: OECD Test Guideline 406, Magnusson & Kligman test	
		ECOLOGICAL INFORMATION Toxicity to fish : (Rainbow trout) LC50: 0.25 mg/l Exposure time: 96 h Toxicity to daphnia : (Daphnia) EC50: 0.19 mg/l Exposure time: 48 h Toxicity to algae : (Senedesmus subspicatus) IC50: 0.068 mg/l, Exposure time: 96 h Remarks: The value mentioned relates to the active ingredient.	
5.9	NFPA HAZARD SIGNALS	:	
	HEALTH	:Not Available.	
	FLAMMABILITY	:Not Available.	
	REACTIVITY	:Not Available.	
	SPECIAL	:Not Available.	
6.	PREVENTIVE MEASURES		
6.1	PERSONAL PROTECTIVE EQUIPMENT	:	
	-- GLOVES	:Rubber Hand gloves	
	-- RESPIRATORY	:Approved Respirator	
	-- EYES	:Chemical safety goggles	
	-- FOOTWEAR	:Conductive shoes	
	-- CLOTHING	:Protective clothing.	

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-- OTHER :--			
6.2 HANDLING AND STORAGE PRECAUTIONS		: Handling Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. Storage Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Suitable materials: High density polyethylene	
7. EMERGENCY AND FIRST AID MEASURES			
7.1 FIRE		:	
7.1.1 FIRE EXTINGUISHING MEDIA		:Water spray, Carbon dioxide (CO ₂), Foam, Dry powder.	
7.1.2 SPECIAL PROCEDURES		:Use self contained breathing apparatus. Wear full protective suit. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth. Collect contaminated firefighting water separately, not be discharged into the drains. Do not whirl around the product.	
7.1.3 UNUSUAL HAZARDS		:In the event of fire the following can be released: Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Sulphur oxides (SO _x), Hydrogen chloride (HCl), Hydrogen fluoride (HF)	
7.2 EXPOSURE			
7.2.1 FIRST AID MEASURE		:Seek medical advice immediately and show this container or label. Eyes: Wash with large amounts of water immediately, Occasionally lifting upper and lower lids, (approximately 15-20 minutes) Skin: Remove contaminated clothing and shoes immediately. wash affected area with soap and mild detergent and large amounts of water (approximately 15 - 20 minutes) Inhalation: Remove victim from exposed area to fresh air immediately. Get medical attention immediately. Ingestion: Rinse mouth. Get medical attention immediately. Treat symptomatically and supportively.	

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7.2.2 ANTIDOTE/DOSAGE	: There is no antidote. Gastric lavage with charcoal, if necessary further treatment. Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.		
7.3 SPILLS	:		
7.3.1 STEPS TO BE TAKEN	: Use Personal Protective Instruments. Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing. Sweep or preferably vacuum up spillage using equipment fitted with high efficiency final filter. Avoid creating a dust. Clean the area with soap solution. Do not allow entering in drains or waterways. If spillage enters rivers or watercourses, inform the Environment Agency Transfer collected material to heavy duty plastic drums and keep safe for disposal.		
7.3.2 WASTE DISPOSAL METHOD	: Product: In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority Can be land filled or incinerated, when in compliance with local regulations. Advice may be obtained from the local waste regulation authority. Contaminated packaging: Packaging that cannot be cleaned should be disposed of as product waste. Empty containers can be land filled after cleaning, when in compliance with the Environmental Protection Regulations.		
8. ADDITIONAL INFORMATION / REFERENCE	: BCS GLOBAL QHSE MSDS Library - SAP MSDS System - Material/UVP No. – 562929.		
9. MANUFACTURER / SUPPLIERS DATA			
9.1 NAME OF FIRM	: Bayer CropScience Limited		

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9.2 MAILING ADDRESS	:6301-10A,GIDC, Ankleshwar, (Gujarat) Pin Code: 393 002		
9.3 TELEPHONE	: 91-2646-551007-Ankleshwar 91-22-25311030-Thane		
9.4 TELEFAX NO.	: 91-2646-551281-Ankleshwar 91-22-25455223-Thane		
9.5 E-MAIL	: rajen.salot@bayercropscience.com sadanand.dandekar@bayercropscience.com		
9.6 TELEGRAPHIC ADDRESS	:		
9.7 a) CONTACT PERSON IN EMERGENCY	:Emergency Control Center Bayer Crop Science Limited, Kolshet Road, Thane (Maharashtra State) 400 607 Telephone No. 022-25311884 022-25311885		
b) LOCAL BODIES INVOLVED	: Disaster Prevention Management Center, GIDC, Ankleshwar.		
9.8 STANDARD PACKING	:--		
9.9 TREMCARD DETAILS / REF. NO.	: Available.		
10. DISCLAIMER	:Information contained in this Material Safety Data Sheet is believed to be reliable but no representation guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to Manufacturer / Seller to ensure that the information contained in the Material Safety Data Sheet is relevant to the product manufactured / handled or sold by him as the case may be. The company makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.		

Changes since the last version are highlighted in **Red Bold Italic**. This version replaces all previous versions.