

Pest Control Procedures

Pesticides - MSDS – Safety - Equipment's



**CANDLE LIGHT
MAINT. & CLEANING EST.**

FOR

PEST & TERMITE CONTROL

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Established in 2008



GENERAL PEST CONTROL SCOPE OF SERVICES



OUR MISSION:

**“Professional service with a deep concern for
Safety, health, environment.”**

OUR CONCEPT:

**“Perfect Planning & Implementation of
Integrated pest management.”**

OUR STAFF:

**“Appropriate selection of well-trained & experienced
personnel, which are suitable for the work, comply with
safety procedures & maintain general safety awareness.”**



Candle Light General Pest Control Service Procedures

Inspection:

An initial inspection of the premises, inside and outside, will be conducted to identify the type and conditions that encourage infestations and prescribe the most effective control program available for specific pests.

1. CRAWLING INSECTS CONTROL:



A practical and specialized effective method for treating crawling insect pests such as Cockroaches, Silverfish, Beetles, Bed bugs, Lizards, Spiders, Ants, and all other known crawling insects.

1/A. DISINFESTATION TREATMENT:

- *These services are by spraying odorless insecticide or dusting powder, and combinations of gel-based baits are used around the surroundings to protect the whole area with no risk of harmful chemicals to human life.*

1/B. OUR SERVICE PROCEDURES:

- *Inspecting the area.*
- *Identifying the pest problem.*
- *Selecting control methods based on the size and type of the pest problem.*
- *Employing effective control measures.*
- *Targeting a precise pesticide application only in areas that require treatments.*
- *Applying pesticides judiciously.*
- *Evaluating effectiveness.*
- *Call Back Service to treat reinfestation or spot treatments.*

1/C. SPRAY TREATMENT:

- *Here we use a unique insecticide, which has a flushing effect. This insecticide is sprayed on the surface of the infested area, which draws insects out of their habitats, generally crevices, holes, etc. This formulation has a knockdown effect, killing insects that come out immediately.*



1/D. ANTI-COCKROACH & ANT'S TREATMENT: 1. Baiting Technology 2. Spray treatment

- *Baiting technology is emerging as a reliable alternative control method that produces maximum effect against target insects and minimal impact on human activity. The salient features of this technology are No smell / Odor. They can be applied in sensitive areas such as kitchen appliances, computers, electrical control boards, record rooms, etc. This technology contains a low dosage of active ingredients.*
- *No need to leave the premises during or after the treatment. No need to empty drawers, cover food, or make special preparations before the treatment.*
- *'In a Cascading effect' - once the cockroaches have eaten the bait, they contaminate other cockroaches, thus producing a cascade of self-destruction throughout the cockroach population. This leads to quick eradication and no renovation.*

❖ **BED BUGS:**



❖ **THE ECONOMIC IMPORTANCE OF BEDBUGS**

- *Bed bugs are blood-sucking insects. They can cause several health effects, including skin rashes, psychological effects, and allergic symptoms. They are not known to transmit any pathogens.*

❖ **OUR SERVICE PROCEDURES:**

- *A high-powered steamer to destroy bugs on contact.*
- *A high-powered vacuum with a HEPA filter to suck bugs up.*
- *Applying a unique Pesticide and particular dusting powder.*



2. FLYING INSECTS CONTROL:



Flies are capable of transmitting more than 60 different serious illnesses, including Typhoid fever, Dysentery, Cholera, Anthrax, and many more. Even if the fly didn't eat on a surface that humans come into contact with, the fly might have left droppings that contain these bacteria.

Mosquitoes are most active around dusk and dawn. They hunt for food by detecting body heat and carbon dioxide. Unfortunately, mosquito bites not only itch and hurt but can also bring viruses and pathogens to the bite recipient.

2/A. OUR SERVICE PROCEDURES:

- *Inspecting the area.*
- *Identifying the pest problem.*
- *Selecting control methods based on the size and type of the pest problem.*
- *Employing effective control measures.*
- *Targeting a precise pesticide application only in areas that require treatments.*
- *Applying pesticides judiciously.*
- *Evaluating effectiveness.*
- *Call Back Service to treat reinfestation or spot treatments.*

2/B. THERMAL FOGGING

- *Thermal Fogging drives flying insects away from the premises.*

2/C. ULTRA-LOW-VOLUME (ULV)

- *The ultra-fine droplets stay airborne and enable the absorption of the active agent by the insects – either by contact or by respiration.*



3. Rodents Control:



- *The most common rodents are the house mouse (*Musculus*),*
- *The roof rat (*Rattus*) and*
- *The Norway rat (*Norvegicus*). Rats are nocturnal feeders.*

Rodents such as mice and rats can carry harmful diseases. Diseases from rodents can spread to people through bite wounds, eating contaminated food or water, or breathing in germs from rodent urine or droppings stirred into the air. People can also get diseases from rodent ticks, mites, and fleas.

3/A. RODENT CONTROL SERVICES: 1. Low Toxic 2. Nontoxic

- Low Toxic: *Use rodenticide bait pellets outside the perimeter & grounds.*
- Nontoxic: *In this method, glue pads, mechanical traps, runway traps, etc., are used, which makes it entirely safe for people as well as pets.*

3/B. OUR SERVICE PROCEDURES:

- *Inspecting the area.*
- *Identifying the pest problem.*
- *Selecting control methods based on the size and type of the pest problem.*
- *Employing effective control measures.*
- *Targeting a precise pesticide application only in areas that require treatments.*
- *Applying pesticides judiciously.*
- *Evaluating effectiveness.*
- *Call Back Service to treat reinfestation or presence of poisonous pests.*



4. POISONOUS PEST CONTROL:



4/A. ON A NECESSARY BASIS:

Snakes, Scorpions, and other poisonous pests can be restricted using toxic pest repellants, strong insecticides, insecticide dusting powder, baits, and traps.

The utilization of snake repellent (Snake A Way) can efficiently restrict snakes & Scorpions. A snake repellent applies to the exterior surroundings to deter snakes, which remains effective for one month.

4/B. OUTDOOR AREAS-BUILDING OUTSIDE PERIMETER & GROUNDS:

Most problems that occur inside are originated from outside surrounding areas. The thorough exterior application can prevent inside difficulties. Large truck-mounted power insecticide sprayer + hand Fogger + rodent + fly baits will be used around the building to control all crawling and flying insects and rodents. For utility holes + drain lines + garbage areas + garbage drums & sewers, covers will be opened, and treatment will be done inside to eradicate pests that may enter the building through drainpipes.

4/C. OUR MONTHLY SERVICE PROCEDURES:

- *Inspecting the area.*
- *Identifying the pest problem.*
- *Selecting control methods based on the size and type of the pest problem.*
- *Employing effective control measures.*
- *Targeting a precise pesticide application only in areas that require treatments.*
- *Applying pesticides judiciously.*
- *Evaluating effectiveness.*
- *Call Back Service to treat reinfestation or presence of poisonous pests.*



Indoor Premises:

- *These premises will be treated with a gel insecticide to control crawling insects and glue boards & cages for rodents. It will be "SAFER TO PEOPLE + NO ODOR + NON-STAINING + NO VAPOR OR FUMES + NON FLAMMABLE + LONG LASTING & MORE EFFECTIVE." Drains, Sink & other insect harborages where the gel insecticide is not applicable will be treated with insecticide sprays. In addition, indoor mist spray must be used in common public areas to control flying insects.*

Outdoor areas-building outside perimeter & grounds:

- *Most problems that occur inside are originated from outside surrounding areas. The thorough exterior application can prevent inside difficulties. Large truck-mounted power insecticide sprayer + hand Fogger + rodent + fly baits will be used around the building to control all crawling and flying insects and rodents. For utility holes + drain lines + garbage areas + garbage drums & sewers, covers will be opened, and treatment will be done inside to eradicate pests that may enter the building through drainpipes.*

Inspection and Monitoring Systems:

- *Our trained staff will inspect your premises during the visit to monitor any new infestations and progress on control measures and carry out documentation of the status of any structural alterations, any unknown causes of infestation, control measures adopted, relocation of bait stations/traps/glue boards and replenishment of baits, re-spraying or re-treatments following your construction plans and documentary requirements.*



General Pest Preparation Terms for all crawling pests

(Ants, Roaches, Silverfish, Earwigs, Sow boas, Pill boas, Carpet beetles, Scorpions, Fleas, Crickets.)

1. *Clean the home or building prior to the pest control visit and maintain the home as neatly as possible for long-term results. This helps to eliminate competing food sources for the insects. Additionally, when the home is clean, the roaches will be more easily attracted to the bait and not to food sources.*
2. *Remove EVERYTHING from all kitchen and bathroom cabinets, drawers, and counters. Do not forget the medicine cabinet, toothbrushes, can openers, toasters, etc. Place all kitchen items on a table or couch out of the kitchen and cover them with a sheet. Any washing or cleaning of cabinets should be done before treatment. ONLY COUNTERTOPS, STOVETOPS, AND BREADBOARDS CAN BE WASHED AFTER TREATMENT.*
3. *After the service, do not wipe out cupboards. You may put contents back without fear of contamination.*
4. *If roaches seen in bedroom, empty chest of drawers, dresser drawers, and closet shelves.*
5. *Cover and store any open food. Remove foods, small appliances, and other small items from countertops.*
6. *Store and/or cover baby toys, supplies, and crib mattress.*
7. *Mop/scrub kitchen and other hard floors and woodwork with detergent. Thoroughly vacuum carpeted floors.*
8. *Always keep garbage in closed containers and take out the garbage every night.*
9. *Pull out refrigerator and clean back, bottom, and floors. Remove items from the top of the refrigerator, stove, and any other such movable appliances. Prior to service, move these appliances away from the wall, and clean behind and beneath them. If the stove has a removable bottom drawer that opens to the floor, it is not necessary to move the entire stove.*
10. *Be sure that the pest control operator has free and full access to anywhere that cockroaches have been seen (or anywhere specified by the pest control operator).*
11. *Discard all excess paper products, and any other unused piles or trash, as these are harbourage areas for roaches and other pests.*
12. *If anyone in the home has special allergy problems, is pregnant, or is under the age of one, the PCO (Pest Control Operator) should be informed prior to service and precautions taken. All people and pets should stay out of the area being serviced for the length of time specified by the PCO.*



13. *Allow 2 full weeks for complete control. What we spray does not penetrate egg shells but is a residual which will kill the young roaches after they hatch from the eggs. Generally, it will take up to two weeks for the eggs to hatch and/or for the larger roaches, which are hiding in inaccessible parts of the walls to come out and get in our residual.*
14. *After service, keep sanitation to as high a level as possible to allow all products to work as swiftly as possible. Do not touch cockroach gel or allow children or pets to get nearby.*
15. *Be prepared to put house plants outside for 2-8 hours.*
 - *Healthy adults 2 hours.*
 - *Children 3-4 hours.*
 - *Babies and pregnant women 4 hours.*
 - *Respiratory problems 4-6 hours.*

BED BUGS TREATMENTS PREPARATION

A lack of preparation could make a bed bug treatment unsafe or cause reinfestation of the entire home or building. many PCOs will not treat areas that are not prepared to specifications.

Preparation Steps & Terms:- You can help your PCO rid your home of a **BED BUG** problem by doing the following things:

1. *Be prepared to leave the home during treatment and for the number of hours afterward as recommended by the PCO. In many cases, this will be at least four hours.*
2. *Remove all pets from the home during the time of treatment excluding fish tanks. Fish tanks are to be covered with plastic wrap, and pumps turned off until reoccupying home.*
3. *Remove all sheets, covers, dust ruffles, or any other bedding covers from the mattresses and box spring in all bedrooms. Wash all bed linens in the hottest water possible. Do not replace the bed linens until four hours after treatment.*
4. *If any mattresses, box springs, or other furniture are in poor or ripped condition and infested, they should be placed in large plastic storage bags available at moving or storage stores, then removed from your home and discarded. Note: The PCO may need to remove the backing from box springs in order to treat all harbourage areas.*
5. *Remove all personal items including clothes, toys, shoes, stored materials, etc., from the furniture and floor area throughout the home.*



6. *Remove everything from ALL closets. Completely empty all bedroom drawers and empty all books and items from bookcases prior to treatment.*
7. *Clean or launder all clothing in the hottest water possible and store in clean storage bags for up to two weeks after treatment. Any stuffed toys or other fabric-based personal items should be run through a pre-heated, hot dryer cycle for a minimum of 15 minutes.*
8. *Vacuum all of carpeting, bedding, bed frame, backs of pictures, and other areas bedbugs are seen. Immediately empty the vacuum cleaner bag and dispose of it in an exterior dumpster or trash.*
9. *To give the treatment time to work, do not shampoo or clean floors or carpet for at least three weeks after the treatment. The vacuum may be used as desired.*
10. *Move all items and furniture away from walls. The PCO will need access to all baseboards and behind all furniture. (Everything may be returned to its original location after the treatment is completed.)*
11. *The bathtub, kitchen counters, dining room tables, and coffee tables can be used to place items during treatment.*
12. *Allow three weeks from time of treatment for it to be completely effective.*

Warranty:-

Our pest treatment is covered one month warrantee upon above mentioned preparation step terms. All rooms & areas should be prepared as mentioned in preparation step terms during the treatment.



SAFETY PROCEDURES & EQUIPMENT: -

Service Technicians & Supervisions shall be provided with the following safety equipment.

- ❖ *Safety Helmet.*
- ❖ *Industrial Protection Goggles.*
- ❖ *A Certified Chemical Mask.*
- ❖ *Coveralls.*
- ❖ *Chemical Resistant Gloves.*
- ❖ *Safety Boots.*
- ❖ *Signs*

EQUIPMENT: -

- ❖ *A Car with a high-pressure tank.*
- ❖ *Large volume output sprays gun.*
- ❖ *Car mounted formulation tank 400 liters capacity.*
- ❖ *Hose reel (50 Meters).*
- ❖ *Personal safety items.*
- ❖ *Warning signboards.*
- ❖ *Maintenance kit.*

FIRST AID PROCEDURES: -

- **Skin:** *Wash material off the skin with plenty of water and soap. Get medical attention if redness, itching, or burning sensation develops. Wash contaminated clothing and decontaminate footwear before reuse.*
- **Eyes:** *Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes been examined and treated by medical personnel.*
- **Ingestion:** *Wash mouth out with plenty of water. Drink water. Do not induce vomiting or administer milk or any fatty liquids. Seek immediate medical advice.*
- **Inhalation:** *Remove the person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, provide oxygen, Consult medical personnel.*
- **Note to Physician:** *Inducing vomiting to remove this material from the stomach can increase the risk of chemical pneumonitis and pulmonary edema due to aspiration of stomach contents.*

SPILL OR LEAK PROCEDURES: -

- *Eliminate sources of ignition and ventilate spill area. Wash skin, eyes, and respiratory protection during cleanup contain the spill. Keep out of sewers and drains. Soak up liquid with absorbent and shovel into a waste container. Cover the container and remove it from the work area.*



DISPOSAL:

- *Surplus products can be diluted with water and broadcast on fallow land. Dip wash can be decomposed by adding lime. Allow 2-3 days for a complete reaction. Exclude any contamination of waterways.*
- *Empty-containing concentrate should be destroyed to prevent storing liquids for human consumption.*
- *All empty containers shall be disposed of in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning, stay out of smoke.*

CHEMICAL SAFETY AT SITE FOR OUR TECHNICIANS:

- Upon reaching the site, safely keep the chemical containers in a cool place.
- No leaking containers. If a container is leaking, transfer it into another container.
- Avoid spilling.
- Do not keep the chemical containers in direct sunlight or heat. Keep away all the personnel other than your crew. Do not allow anybody to touch or smell the termiticide. If anyone wants to inspect the chemicals, inform them to have the safety dress before exposing themselves to the chemicals.
- Do not have chemicals unattended.
- Not to leave chemical containers with or without chemicals on the site.
- Do not throw empty containers on the site or in areas where children might see them.
- Bring the empty containers always back to the store for disposal.
- Do not pour the surplus termiticide left in the container into the public water system/garden or other public areas.
- Any chemical spills on vehicles or other public places should be wiped out directly. Pour enough water on such surfaces to make the feeling less toxic and wipe it out.
- While working, always keep the operation pick-up truck flash sign on to keep the public alert and away from the working site.



PESTICIDES DETAILS

CANDLE LIGHT PEST & TERMITE CONTROL

#	Material	Purpose of use	Target area	Dilution rate(indoor)	Dilution rate (outdoor)
1	Betasafe	Crawling insect by residual spraying, fly insect by thermal fogging	Kitchen, toilets, drainage & all indoor area	100ml / 5lit. of water	1lit./150 lit. water
2	CyperSafe	Crawling insect by residual spraying, fly insect by thermal fogging	Kitchen, toilets, drainage & all indoor area	100ml / 5lit. of water	1lit./150 lit. water
3	Cygnat	Crawling insects by residual spraying, Flies & mosquitoes by fogging	Kitchen, toilets & drainage	20 ml /1 lit. of water	500 ml / 100 lit. of water
4	Montethrine	Crawling insects by residual spraying Flies & mosquitoes by fogging	Kitchen, toilets, drainage & all indoor area	20 ml /1 lit. of water	500 ml/ 150 lit water
5	Maxforce gel	Cockroach baits	Kitchen cabinet & toilets	1 gm/m ²	N/A
6	Freekill	Flies' baits in outdoor area	Outdoor area	10 to 15 gm per tray	N/A
7	Robanpasta	Rodent baits	Outdoor area, basement,	20 gm per tray	N/A
8	Snakeaway	Poisonous insects by scattering	Outdoor area around the buildings	N/A	1 kg per 10 linear meters
9	Glue trap	Trapping insects, snakes, lizards	Indoor area, technical rooms & basement		
10					

MATERIAL SAFETY DATA SHEET



BETASAFE 25SC

ASTRA INDUSTRIAL COMPLEX CO., LTD. "ASTRACHEM"
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
Tel # (+966) 3 8121 406
Revision Date :30/08/2010
Product Code:

BETASAFE 25SC (BETA-CYFLUTHRIN 2.5% w/v)

1. PRODUCT IDENTIFICATION

Product Name: BETASAFE 25SC
Active ingredient: BETA-CYFLUTHRIN
Chemical Class: IRAC 3A Pyrethroid
Use: **BetaSafe 25SC** is insecticide for Public Health use.
Producer: **Astra Industrial Complex Co., Ltd.**
P.O. Box 30447, Al-Khobar 31952
Kingdom of Saudi Arabia
Emergency Tel # (+966) 3 8121 406

2. HAZARD IDENTIFICATION

Emergency overview

Hazardous Substance (see risk phrases below)- DANGEROUS GOODS

Pesticide, Liquid, Toxic, N.O.S(BETA-CYFLUTHRIN)

Risk phrases:

Xn: Harmful
R20 :Harmful by inhalation.
R22: Harmful if swallowed.
R52/ R53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2 : Keep out of the reach of children.
S23 : Do not breathe vapour or spray.
S25 : Avoid contact with eyes
S 36/37/39: Wear suitable protective clothing, gloves and eyes/face protection
S62 : If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.
S61 : Avoid release to the environment.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS no.	Contents (g /Liter)
Beta-Cyfluthrin	68359-37-5	25 g/L

4. FIRST AID MEASURES

Remove the person from the contaminated environment.

In case of

Skin contact

Remove all contaminated clothings and immediately wash with lot of water and soap;

Eye contamination

Wash the eyes with plenty of cool and clean water;

Inhalation

Carry the person to the open fresh air, loosen the clothings around neck and chest,

Ingestion

If the victim is fully conscious, induce vomiting by tickling back of the throat. Do not administer milk, alcohol and fatty substances.

In case the person is unconscious make sure the breathing passages is kept clear without any obstruction. Victim's head should be turned to one side in the lying down position. In case of breathing difficulty, give mouth to mouth or mouth to nose breathing.

Medical aid:

Take the patient to the doctor/Primary Health Centre immediately along with the original container, leaflet and label.

Treatment/antidote:

No specific antidote. Treatment is essentially symptomatic.

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5. FIRE FIGHTING MEASURES

Not a fire hazard. Keep away from heat, sparks and flames.
May form explosive mixtures in air.

Flammability:

> 100 °C. , Class C1 Combustible liquid. Non spontaneous combustion.

Fire and Explosion Hazards:

Stable at normal temperatures and storage conditions. Decomposition will not occur. Polymerisation will not occur. Incompatible with strong bases, strong acids, oxidising and reducing agents, acid chlorides bleaching agents, chlorine, chromates, oxygen, percarbonates, perchlorates, permanganates, peroxides, phosphorous acids, trichloroacetic acid.

Suitable Extinguish Media:

Water spray, dry chemical, foam, carbon dioxide (CO₂).
On combustion, toxic fumes such as oxides of carbon, nitrogen and sulphur, hydrogen chloride and other toxic substances may be emitted.

Emergency response actions

Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove all possible sources ignition. Do not smoke, eat or drink during the cleanup process. Personal involved in cleanup should wear protective clothing and equipment. Keep people and animals away and upwind. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labeled drums for safe disposal. Clean floor with a damp cloth and place cloth in drum. Cover and label drums safe disposal. Thoroughly ventilate the area after cleanup. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. Decontaminate tools and equipment used in the cleanup.

Potential combustion products generated in fire

On combustion, toxic fumes such as oxides of carbon, nitrogen and sulphur, hydrogen chloride and other toxic substances may be emitted.

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Personal handling this material should be thoroughly trained to handle spills and release. Wear appropriate gear for the situation. See personal protection information in Section 8.

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Cleanup and disposal of Spill: Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

Land Spill or Leaks:

Containment of spill: Stop leak if it can be done without risk. Follow procedure under Cleanup and Disposal of spill.

Environmental and regulatory Reporting: Do not flush to drain. If spilled on the ground, the effected area should be scraped and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway. Spills may be reportable to the National Response Centre

7. HANDLING AND STORAGE

Keep out of Reach of children and animals

Personal handling this product should be thoroughly trained as to its hazards. Use no sparking tools and grounded/bonded equipment and containers when transferring. Do not ingest. Do not breathe dust or mists . Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Do not store in or around the home. Store unused product in a cool, ventilated dry locked area. Never transfer this product to another container for storage. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in WPS.

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Eye/Face protection

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Eye and face protection requirements will very dependent upon work environment conditions and materials handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Body protection

Application and other handlers must wear long sleeved shirts and long pants. waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure.

Work/Hygienic procedures:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

9. PHYSICAL AND CHEMICAL PROPERTIES

1. Appearance	Off white homogenous viscous suspension
2. pH (CIPAC MT 75.2)	5.0
3. Density	1.028 - 1.039 g/ml
4. Persistence Foam (CIPAC MT 47.2)	5 ml
5. Suspensibility	≥ 95% after 30 min

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10. STABILITY AND REACTIVITY

Chemical stability: This material is stable under normal handling and storage conditions
Condition to avoid:none known
Incompatibility: strong bases, strong acids, strong oxidizing agents.
Hazardous polymerization : Will not polymerize

11. TOXICOLOGICAL INFORMATION

Technical Beta-Cyfluthrin

Acute oral toxicity : LD ₅₀ (mg/kg)	: Male Rat 2000 mg/kg (in corn oil).
Acute dermal toxicity LD ₅₀ (mg/kg)	: Male Rat >5000 mg/kg
Acute inhalation toxicity : LC ₅₀	: Male Rat > 0.1 mg/l
Skin irritant effect	: Non Irritant
Eye mucosa irritant effect	: Non irritant to the eyes of rabbits
Sensitizing effect	: Non skin sensitiser

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for Japanese quail >2000 mg/kg.
Fish LC₅₀ (96 h) for rainbow trout 89, bluegill sunfish 280 ng/l.
Daphnia EC₅₀ (48 h) 0.3 µg/l.
Algae E_rC₅₀ for *Scenedesmus subspicatus* >0.01 mg/l.
Bees LD₅₀ <0.1 µg/bee.
Worms LC₅₀ for earthworms >1000 mg/kg.

13. DISPOSAL CONSIDERATION

General Disposal Guidance:

Do not contaminate water, food or feed by disposal, Contamination with this product will render water, food or feed unfit for human consumption. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

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Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT:

Not classified as dangerous goods for transport by road and rail

MARINE and AIR:

Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) and by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation.

Proper Shipping Name:	Pesticide, Liquid, Toxic, N.O.S, (BETA-CYFLUTHRIN)	
UN. No:	UN 2902	
Hazard Class:	6.1	
Classification Code:	TF2	
Packing group:	III	
Subsidiary Risks:	3	
Special provisions:	61	
Limited quantities:	LQ19	
Packaging:	Packing instructions	P001, IBC03, R001
	Special packing provisions	-
	Mixed Packaging Provisions	MP15
	Instructions	T7
UN Portable tanks	Special Provisions	TP2
	Tank Code	L4bh
ADR Tank	Special Provision	TU15 TE1 TE15 TE19

MATERIAL SAFETY DATA SHEET



BETASAFE 25SC

ASTRA INDUSTRIAL COMPLEX CO., LTD. "ASTRACHEM"
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
Tel # (+966) 3 8121 406
Revision Date :30/08/2010
Product Code:

Special provision carriage	Vehicle for tank carriage	FL
	Transport Category	2
	Packages	
	Bulk	
	Loading, unloading & Handling Operation	CV13 & CV28 S2 S9
Hazard Identification		63

15. REGULATORY INFORMATION.

Agricultural pesticides. Registration number in Saudi ministry of agriculture: **284-96-307**.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace based on publicly available and internally available information. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

برماتين 25 اي سي

Permatin 25 EC TM

مبيد حشري لمكافحة حشرات الصحة العامة و الحشرات المنزليه للرش السائل
المتبقي الأثر و الرش الرذاذي و الضبابي .

**Emulsifiable Concentrate Pyrethroids Insecticides to Control
Public Health Insects Through Residual Treatments , And Space
Treatment Ultra Low Volume (ULV) and Thermal Fogging .**

Each liter contains :
Permethrin : 250 g/l .
Esbiothrin : 5 g/l .

Permatin 25 Is a pyrethroid insecticide very effective on all kinds of public health insects indoor and outdoor , warehouses factories and farms .

Permatin 25 Contains Permethrin with its powerful killing effect and its long residual effect that lasts for few weeks , Esbiothrin as a knock down agent and . .

Permatin 25 Is used in residual spray and its diluted with **water** and space spray which is diluted with **kerosene** or **diesel** .

Permatin 25 Economic because of its high dilution rates and as follows :

- **Crawling insects** : dilute 1 – 49 liters of water for residual spray .
- **Flying insects** : dilute 1 –124 liters of water for residual spray .
- **Crawling & Flying insects** : dilute 1 – 300 liters of kerosene or diesel for Thermal fogging Space spray indoor and outdoor .
- **Crawling & Flying insects** : dilute 1 – 24 liters of kerosene or diesel for Ultra Low Volume (ULV) spray indoor and outdoor .

Permatin 25 Effective on both crawling insects (cockroaches , ants , fleas , bedbugs), by ingestion and contact , and flying insects (flies, mosquitoes etc...).

Permatin 25 Constant on high temperature and light .

Permatin 25 Have slight color and smell , no spots , and biodegradable .

Permatin 25 Registered in Jordans MOA under license No. (1131) .

Permatin 25 Is packed in 5 liters gallons , 1 liter bottles and 250 ml .

Trade Mark .

TM علامه تجاريه .

Made in Jordan .

Jordan Insecticides & Agro-Treatment Manufacturing Co.
Tel : + 962 6 5853685 , + 962 6 5853695 . Fax : + 962 6 5853682 .
P.O. Box , 5311 Amman 11183
Jordan .

E-mail : sales@ati-jordan.com

SAFETY DATA SHEET

PERMATIN 25 EC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Trade Name: PERMATIN 25 EC

Product (Specification) Code none known.

Usage: Emulsifiable concentrate.

Appearance: yellow liquid

Supplier: Jordan Insecticides & Agro-Treatment Manufacturing CO.

Address:

P.O. Box 5311 Amman 11183 Jordan

Phone Number +962-6-5853685

+962-6-5853695

Fax Number +962-6-5853682

E-mail: ati@ati-jordan.com

2. COMPOSITION/INFORMATION ON INGREDIENTS:-

Preparation contents

- PERMETHRIN 250 g/L
 - ESBIOTHRIN 5 g/l
 - Emulsifier 40g/L
 - Emulsifier 20 g/L
 - Solvent 622g/L
-

3. HAZARDS IDENTIFICATION:-

Fire, flammable, heating sealed containers will cause pressure rise with risk of bursting & will give rise to irritant and toxic if fumes.

Harmful if swallowed.

4. FIRST-AID MEASURES:-

Eyes contact: Flush with clean water for at least 15 minutes.

Skin contact : Wash with plenty of soap and

Water, get medical attention if irritant, give persist.

Ingestion: Do not induce vomiting. Call physician immediately, gastric lavage.

Inhalation: move patient to fresh air keep rest and warm, if not breathing give artificial respiration and call medicinal attention.

5. FIRE-FIGHTING MEASURES:-

Suitable extinguishing media: foam, dry agent, carbon dioxide.

Unsuitable extinguishing media: water jet.

Fire and explosion hazards: flammable.

Special protective equipment.

SAFETY DATA SHEET

PERMATIN 25 EC

6. ACCIDENTAL RELEASE MEASURES:-

Evacuate and ventilate spillage area and eliminate all sources of ignition. Wear self contained breathing apparatus, wear suitable protective clothing, absorb with sand earth or other inert material and transfer to a closed container for safe disposal.

7. HANDLING AND STORAGE

- Store pesticide in it's original container tightly closed.
 - Keep away from children, food & drink.
 - Store in dry, well – ventilated place, at room temperature and away from direct sunlight.
-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Extract vapors at their point of emission.
Wear gloves, water proof clothing, face shield, goggles, mask with cartridge.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid.
Colour: yellow
Odor: aromatic
PH: (1% w/w in water)
Boiling Range/Point (deg C): Not determined.
Melting Point/Freezing Point (deg C) not determined.
Flash Point (deg C): 47 c .
Solubility in Water: Emulsifiable concentrate
Vapor Pressure: Not determined.
Density (g/ml): 0.955±0.05 at 20 °C.

10. STABILITY AND REACTIVITY:

Stability: Stable under normal conditions.
Conditions to Avoid: Sources of ignition.
Materials to Avoid: None.

11. TOXICOLOGICAL INFORMATION:

Acute toxicity: for active material

Oral Acute oral LD₅₀ PERMATIN: rats 430-4000, mg/kg
ESBIOALTHRIN rats 432, mg/kg

Skin and eye Acute percutaneous LD₅₀ for rats >4920, rabbits >2460 mg/kg. Slight skin and eye irritant (rabbits). May be a weak skin sensitiser.

Inhalation LC₅₀ (4 h) PERMATIN: rats >685 mg/m³ air
ESBIOALTHRIN rats 2630 mg/m³ air

SAFETY DATA SHEET

PERMATIN 25 EC

12. ECOLOGICAL INFORMATION:-

Acute toxicity (active ingredient)

PERMATIN

Birds Typical oral LD₅₀ values for a *cis/trans* ratio of c. 40:60 are: for chickens >3000, mallard ducks >9800, Japanese quail >13 500 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout 2.5 µg/l; (48 h) for rainbow trout 5.4, bluegill sunfish 1.8 µg/l.

Daphnia LC₅₀ (48 h) 0.6 µg/l.

Bees Toxic to bees. LD₅₀ (24 h) (oral) 0.098 µg/bee; (topical) 0.029 µg/bee.

ESBIOALTHRIN:

LC50 (96h) trout =0.01 mg/l, bluegill= 0.033mg/l .lc50 (48h) daphinia=0.0089 mg/l

13. DISPOSAL CONSIDERATIONS:

wash out container amid dispose of empty containers and rinsing safely in accordance with local and national regulations. Arrange for chemical incineration at an approved plant or properly supervised burial at an approved toxic waste tip.

14. REGULATORY INFORMATION:

Risk symbol: Flammable

Hazard Classification: Flammable

Xn – Harmful

Designated Name: PERMATIN 25 EC Liquid (contains PERMETHRIN ,ESBIOTHRIN , emulsifier, solvent)

R phrases 10-Flammable. 22-Harmful if swallowed. Irritant to eyes & skin.

S phrases 23-Do not breathe fumes/vapour/spray. 26-In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. 36/37-Wear suitable

Protective clothing and gloves. 45-In case of accident or if you feel unwell, seek

Medical advice immediately (show the label where possible).

Precautions: (FACESHIELD) when handling the concentrate.

When using don't eat, drink or smoke.

Wash concentrate from skin or eyes immediately

Avoid all contact with skin & eyes.

Wash hands before meals and after work.

Keep away from food , drink and animal feeding stuffs.

Keep out or reach of children .

Dangerous to fish or other aquatic life. Do not contaminate

surface waters or ditches with chemical or used container.

Keep in original container tightly closed in a safe place.

Wash out container thoroughly and dispose of safely.

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P.O. Box 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
www.astra-agri.com.sa

MSDS: **CYGNET® 100EC Public Health Insecticide 1 / 7**

MATERIAL SAFETY DATA SHEET

CYGNET

®

100EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. (ASTRACHEM)
P.O. Box 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA

1. PRODUCT IDENTIFICATION

Product Name: **CYGNET® 100EC**

Chemical Class: Pyrethroid Insecticide

Use: **CYGNET 100EC** is an emulsifiable concentrate formulation containing 100 g/L of the active ingredient Cypermethrin. It is used for the control of a wide range of insects, such as mosquitoes, cockroaches, houseflies and other insect pests in public health and flies and other insects in animal houses. Also it can be used as an animal ectoparasiticide.

Producer: **Astra Industrial Complex Co., Ltd.**

P.O. Box 30447, Al-Khobar 31952

Kingdom of Saudi Arabia

Emergency Tel # (+966) 3 8121 406

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Proportions

(% w/w) Chemical structure

Cypermethrin 93% Tech

CAS No. 52315-07-8

IUPAC Name: (RS)-(-cyano-3-phenoxybenzyl
(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-
dimethylcyclopropanecarboxylate

11.29

(100 gm / L)

C CH

Cl

Cl

CH₃

CH₃

CO₂CH O

CN

Blend of ionic and non ionic

Emulsifiers 6.30

Organic solvents 82.41

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MSDS: **CYGNET® 100EC Public Health Insecticide 2 / 7**

3. HAZARD IDENTIFICATION

Physical hazards:

Marine Pollutant

Acute Hazard Symptoms:

Inhalation: Burning sensation. Convulsions, Cough. Laboured, breathing. Shortness of breath, Sore throat.

Eye: Redness. Pain

Skin: Redness. Pain

Ingestion: Abdominal pain. Cough

Prevention:

Exposure: Prevent dispersion of dust! Strict Hygiene!

Inhalation: local exhaust, or breathing protection.

Eye: Safety spectacles.

Skin: Protective clothing.

Ingestion: Do not eat, drink, or smoke during work.

Wash hands before eating.

4. FIRST AID MEASURES**First Aid:**

Exposure: In all cases consult a doctor!

Ingestion:

Remove by gastric lavage and catharsis maintaining blood pressure and airway. Give Oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately.

Eye:

Wash eyes immediately with large amounts of water normal saline. Occasionally lifting upper and lower until no evidence of chemical remain (approximately 15-20 minutes). Get medical attention immediately.

Skin:

Remove contaminated clothes and shoes. Rinse and then wash skin with water and soap.

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MSDS: CYGNET® 100EC Public Health Insecticide 3 / 7

Inhalation:

Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest, treat systematically and supportively. Get medical attention immediately.

Information for Doctors or other trained persons giving First Aid:

Get medical attention immediately. Keep the original product label.

Antidote:

No specific antidote to Cypermethrin is known. Symptomatic treatment must be carried out. In case of severe intoxication, therapy should include a sedative and anti-convulsant (e.g. Diazepam, Barbiturates, Paraldehyde, etc). If a large quantity is

swallowed, unless the patient is vomiting, gastric lavage can be performed with 5 % Sodium Bicarbonate solution followed by powdered activated charcoal. Intravenously 2 to 4 mg at once and every 10 minutes as required under medical attention. 20 to 30 mg or more may be required during the first 24 hours.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, CO₂, Chemical Powders

Unsuitable Extinguishing Media:

Water jets, break bags, glass containers, etc., should not be used.

Special Exposure Hazards in a fire:

As for all organic materials, combustion may lead to hazardous oxides of carbon, nitrogen and other toxic fumes.

Fire Fighting Instructions:

Cool fire-exposed containers with water fog and avoid environmental contamination with extinguishing water.

Special Preventive Equipment for Fire Fighting:

Wear a self-contained respiratory apparatus. Wear protective clothing.

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MSDS: *CYGNET*® 100EC Public Health Insecticide 4 / 7

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with eyes and skin. Wear clean rubber gloves, protective clothing and goggles. Replace gloves frequently and destroy them after use. Do not inhale the vapour during preparation of spray.

Environmental Precautions:

Avoid soil and water contamination.

Methods of Cleaning Up:

Carefully clean the spraying equipment towards the end. Clothes should be changed and washed before re-use. Wash the hands, face and other open areas of body during spray with soap and water.

7. HANDLING AND STORAGE

Handling

Wear clean rubber gloves, protective clothing and goggles. Replace gloves frequently and destroy them after use. Do not inhale the vapor during preparation of spray. Loading in spray equipment must be done in the open air. Do not apply a spray treatment upwind and remain away from mist. Do not smoke drink or eat while spraying.

Always wash thoroughly with soap and water after handling and before eating, drinking or smoking. Keep away from heat and open flame.

Storage

Sensitivity to Damp, Light and Oxidation:

Containers should be kept well-sealed and stored in cool, dry and ventilated place with its label intact. Store in a flame-proof area as well away from sparkler heat devices as formulations, consist of highly inflammable solvents.

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MSDS: **CYGNET® 100EC Public Health Insecticide 5 / 7**

Special Instruction:

It should be kept under lock and key and should be kept away from foodstuffs, beverages and animal feed. The entrance of the store must be barred to children. Containers should be kept well sealed and stored in a cool, dry and ventilated place with its label intact.

Storage Conditions:

To be stored in a cool, dry place, away from direct sunlight and heat. Store in a flame-proof area as well away from sparkler heat devices as the formulations, consist of highly inflammable solvents.

Minimum two years if stored under original conditions.

Recommended

Packaging Material UN-Approved MS Drums

Supplier Packaging UN-Approved MS Drums

Packaging Material

to be Avoided PE lined steel containers

Incompatible Substances Incompatible with alkaline natured pesticides and fertilizers

8. EXPOSURE CONTROLS / PERSONNEL PROTECTION

Personal protective Equipment:

Respiratory Protection: Wear masks

Hand Protection: Wear suitable protective gloves.

Eye Protection: Wear safety glasses or goggles.

Skin Protection Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Assay Cypermethrin 100 ± 10 g/L

Appearance Clear yellow liquid free of visible impurities.

Density 0.930 g/ ml

Acidity as H_2SO_4 <1.5g/ Kg

Flash point >40°C

Water content: <2.0 g / Kg

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MSDS: **CYGNET® 100EC Public Health Insecticide 6 / 7**

10. STABILITY AND REACTIVITY

Hazardous Reaction: Unknown.

Sensitivity to Jolting: None

Conditions to Avoid: Avoid spark generations and flames.

Materials to avoid Strong alkaline based materials

11. TOXICOLOGICAL INFORMATION

Technical:

LD₅₀ oral for rat for technical grade material used in the product:

Cypermethrin: 250 - 4150 mg/Kg.

Formulation:

LD₅₀ oral for rat: >5000 mg/kg

12. ECOLOGICAL INFORMATION

Persistence in the Environment:

Biodegradation: Non-toxic to micro-organisms and easily degraded by micro-organisms.

Chemical Degradation Soil pH influenced to induce break down of the product to CPA, PBA and CO₂

13. DISPOSAL CONSIDERATION

Product:

Wastes resulting from the use of this product may be disposed at an approved waste disposal facility.

Empty Packaging:

Disposal or incineration method based on state or local codes of practice and laws.

ASTRA INDUSTRIAL COMPLEX CO., LTD. (**ASTRACHEM**)

P.O. BOX 30447, AL-KHOBAR 31952

KINGDOM OF SAUDI ARABIA

www.astra-agri.com.sa

MSDS: CYGNET® 100EC Public Health Insecticide 7 / 7

14. TRANSPORT INFORMATION

Land Transport ADR/RID Class: UN No. 2783, Environmentally Hazardous

Sea Transport-IMDG Class: Marine Pollutant.

Air Transport-IATA Class: IMDG Code Class 6.1

15. REGULATORY INFORMATION.

EEC Norms – Information on the warning label.

Symbol : Caution

Risk Phrase Poison White color

Safety advice:

Avoid release to the environment. Please refer to special instruction/safety data sheets.

National Regulations:

Local regulations, if any, should be applied to classification and labeling.

16. OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

Page 1

"DuPont" "ADVION" COCKROACH GEL BAIT
M0000626 Revised 27-FEB-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"ADVION" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

CAS Name : INDOXACARB

Product Use

Insecticide For Use in Residential, Institutional,
Commercial, and Industrial Areas.

Tradenames and Synonyms

INDOXACARB

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
INDOXACARB	173584-44-6	0.6
(S)-methyl 7-chloro-2,5-dihydro-2-[[(methoxycarbonyl)[4(trifluoromethoxy) phenyl] amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine- 4a-(3H)-carboxylate		99.4
OTHER INGREDIENTS		

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION. Avoid contact with skin, eyes or clothing.
Wash thoroughly with soap and water after handling.

KEEP OUT OF REACH OF CHILDREN.

Avoid treating areas that are easily accessible to
children and pets.

Potential Health Effects

Based on animal testing, no biologically significant effects are
expected from skin or eye contact or by ingestion.

Carcinogenicity Information

None of the components present in this material at concentrations
equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH
as a carcinogen.

FIRST AID MEASURES

First Aid

IF ON SKIN OR CLOTHING: No specific intervention is
indicated as the product is not likely to be hazardous to
the skin. Consult a physician if necessary.

IF INHALED: No specific intervention is indicated as the
product is not likely to be hazardous by inhalation.
Consult a physician if necessary.

IF IN EYES: No specific intervention is indicated as the
product is not likely to be hazardous to the eyes. Consult
a physician if necessary.

IF SWALLOWED: No specific intervention is indicated as the
product is not likely to be hazardous by ingestion. Consult
a physician if necessary.

Have the product container or label with you when calling
a poison control center or doctor, or going for treatment.
You may also contact 1-800-441-3637 for emergency
medical treatment information.

FIRE FIGHTING MEASURES

Flammable Properties

Flashpoint: >100°C

Not a fire or explosion hazard.

Extinguishing Media

Water, Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

For small spills, use cloth or paper towels and place collected material and towels in appropriate container for disposal.

For larger spills, soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up and transfer to an approved waste container for disposal. After removal of spilled material, wash the affected areas with water and detergent.

HANDLING AND STORAGE

Handling (Personnel)

Do not apply to surfaces that food contacts. Do not allow open foods to contact gel material.

Wash thoroughly with soap and water after handling.

Handling (Physical Aspects)

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Storage

Do not contaminate water, food, or feed by storage and disposal.

Store in a cool, dry place inaccessible to children and pets.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

No PPE is specified for use when using this product according to label directions; however, avoid contact with skin, eyes and clothing.

Exposure Guidelines

Applicable Exposure Limits

INDOXACARB

PEL (OSHA)	:	Particulates (Not Otherwise Regulated)
		15 mg/m ³ , 8 Hr. TWA, total dust
		5 mg/m ³ , 8 Hr. TWA, respirable dust
AEL * (DuPont)	:	1 mg/m ³
		8 & 12 Hr. TWA, Respirable

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form : Gel
Color : Light khaki
Odor : Faint, non-descript
Density : 1.123 g/mL @ 22°C
PH : 5.4 (1% solution in deionized water)
Solubility in Water : 0.2 ppm (for active ingredient
indoxacarb)

STABILITY AND REACTIVITY

Incompatibility with Other Materials

None reasonably foreseeable.

TOXICOLOGICAL INFORMATION

Animal Data

DuPont Advion Cockroach Gel Bait
Oral LD50: > 5000 mg/kg in female rats
Dermal LD50: > 5000 mg/kg in male/female rats

DuPont Advion Cockroach Gel Bait is not a skin or eye irritant, and is not a skin sensitizer in animal tests.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Note that the following results are based on tests conducted under laboratory conditions using the technical material as the test substance. The technical material used in the tests contained 94.5% of the insecticidally active isomer and inactive isomer in an approximately 75:25 ratio.

(94.5% DPX-MP062 Technical)

AQUATIC TOXICITY:

96 hour LC50 - Bluegill sunfish: 0.90 mg/L.
96 hour LC50 - Rainbow trout : 0.65 mg/L.
48 hour EC50 - Daphnia magna : 0.60 mg/L.

Based on the above results for fish and invertebrates, risk quotients (RQs) were < 0.002 and no levels of concern (LOCs) were exceeded.

AVIAN TOXICITY:

Acute Oral LD50 - Bobwhite Quail : 98 mg/kg.
Acute Dietary LC50 - Bobwhite Quail: 808 ppm

(ECOLOGICAL INFORMATION - Continued)

Acute Dietary LC50 - Mallard Duck : >5620 ppm

Based on the above results for birds, acute RQs were < 0.03 and chronic RQs were < 0.1, and no LOCs were exceeded.

DISPOSAL CONSIDERATIONS

Waste Disposal

Do not contaminate water, food, or feed by storage or disposal.

Do not reuse/refill the gel bait dispenser. Place empty dispensers in trash or offer for recycling if available.

If partially filled: Wrap in newspaper and discard in trash or call your local solid waste authority or 1-888-638-7668 for disposal instructions.

Container Disposal

Do not reuse/refill the gel bait dispenser. Place empty dispensers in trash, offer for recycling, or call your local solid waste authority or 1-888-638-7668 for disposal instructions.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA

Proper Shipping Name : Not Regulated

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-652

OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection
Address : Wilmington, DE 19898
Telephone : 1-888-638-7668

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



Date of Issue: June 17th, 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Maxforce® Cockroach Gel
Other names: Maxforce Professional Insect Control Roach Gel
UVP: 05938465
Chemical group: Hydrazide
Recommended use: Insecticide
Formulation: Bait (ready-for-use) RB
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Technical Information Service: 1800 804 479
Facsimile: (03) 9248 6800
Website: www.bayeres.com.au
Contact: Technical Manager (03) 9248 6888
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard designation: Non-hazardous (National Occupational Health and Safety Commission - NOHSC)
Risk phrases: Not applicable
Safety phrases: See sections 4, 5, 6, 7, 8, 10, 13
ADG classification: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSMP classification: Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Hydramethylnon	[67485-29-4]	20.0
Propylene glycol	[57-55-6]	70.0
Oleic acid	[112-80-1 204-007-1]	> 1,00 - < 20,00
Other ingredients	(non hazardous)	910

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



Date of Issue: June 17th, 2011

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Inhalation:** Due to the nature of this product inhalation is unlikely.
- Skin contact:** In case of contact with skin wash off immediately with polyethylene glycol 400, then with plenty of water. If symptoms persist, call a physician.
- Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion:** Rinse mouth. Keep at rest. Do NOT induce vomiting. Obtain medical attention.
- First Aid Facilities:** Ensure washing facilities are available.
- Medical attention:** Symptoms:
May cause stuffy or runny nose and scratchy throat, lacrimation, lethargy, diarrhea.
- Note to physicians:
Gastric lavage does not seem to be mandatory in regard of the low toxicity of the compound. However, the application of activated charcoal and sodium sulphate is always advisable in significant ingestions. As there is no antidote, treatment has to be symptomatic and supportive.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which should not be used for safety reasons:** High volume water jet.
- Specific hazards during fire fighting:** Dangerous gases are evolved in the event of a fire.
- Special protective equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.
- Further information:** Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



Date of Issue: June 17th, 2011

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.
Environmental precautions:	Do not allow to get into surface water, drains and ground water.
Methods for cleaning up:	The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. 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 floors and contaminated objects with plenty of water.
Additional advice:	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13. Check also for any local site procedures.

7. HANDLING AND STORAGE

Handling:	
Advice on safe handling:	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Use only in area provided with appropriate exhaust ventilation.
Advice on protection against fire and explosion:	Dust may form explosive mixtures with air.
Storage:	
Requirements for storage areas and containers:	Store in a place accessible by authorized persons only. Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.
Advice on common storage:	Keep away from food, drink and animal feedingstuffs.
Suitable materials:	Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment:	
In normal use and handling conditions:	Wear rubber gloves.

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



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In all other cases the following recommendations would apply:

- Respiratory protection:** No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
- Hand protection:** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
- Eye protection:** Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
- Skin and body protection:** Wear standard coverall and type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
- Hygiene measures:** When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:**
- Form:** Gel
- Colour:** Brown
- Odour:** Odourless
- Density:** 1.10 g/cm³
- Water solubility:** Partly soluble

10. STABILITY AND REACTIVITY

- Conditions to avoid:** Extreme of temperature and direct sunlight.
- Hazardous reactions:** No hazardous reactions when stored and handled according to prescribed instructions. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

- Inhalation:** Due to the nature of this product, inhalation is unlikely.
- Skin contact:** Irritation to the skin is unlikely.

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



Date of Issue: June 17th, 2011

Eye contact: May irritate the eyes.
Ingestion: May be harmful if swallowed.
Other: None

ANIMAL TOXICITY DATA – PRODUCT:

Acute oral toxicity: LD₅₀ rat: > 5000 mg/kg
Acute dermal toxicity: LD₅₀ rat: >2000 mg/kg
Inhalation toxicity: LC₅₀ (4 h) rat: > 5 mg/L
The value mentioned relates to the active ingredient.
Skin irritation: Not a skin irritant - rabbit
Eye irritation: Not an eye irritant - rabbit
Sensitisation: Not a skin sensitizer – guinea pig
OECD Test Guideline 406, Buehler test

Other information:

In two year feeding studies with hydramethylnon in rats the No Observable Effect Level (NOEL) was 50mg/kg diet. Hydramethylnon is not mutagenic and not teratogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

Fish toxicity: LC₅₀ (96 h) 1.70 mg/L (Bluegill sunfish)
The value mentioned relates to the active ingredient.
LC₅₀ (96 h) 0.16 mg/L (Rainbow trout)
The value mentioned relates to the active ingredient.

Daphnia toxicity: LC₅₀ (48 h) 1.14 mg/L (Water flea *Daphnia magna*)
The value mentioned relates to the active ingredient.

Toxicity to algae: Not available

Bird toxicity: LD₅₀ >2510 mg/kg (Mallard ducks)
The value mentioned relates to the active ingredient.
LD₅₀ 1828 mg/kg (Bobwhite quail)
The value mentioned relates to the active ingredient.

Bee toxicity: Non-toxic topically to honeybees at 0.03 mg/bee
The value mentioned relates to the active ingredient.

**Environmental fate,
persistence and**

MATERIAL SAFETY DATA SHEET

Maxforce® Cockroach Gel



Date of Issue: June 17th, 2011

degradation: Hydramethylnon has low solubility in water and is rapidly degraded in sunlight.

13. DISPOSAL CONSIDERATIONS

Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1994.

Australian Pesticides and Veterinary Medicines Authority Approval Number: 56626

16. OTHER INFORMATION

Trademark information: Maxforce® is a Registered Trademark of Bayer.

Preparation information: Replaces September 14th, 2006 edition.
Reasons for update: Renewal due.

Data sources: Bayer CropScience European product safety data sheet.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS



International

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) No. 1907/2006

Page 1 of 4

Roban Pellet Bait

Revision 5
Revision date 24-Oct-2011

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Roban Pellet Bait
Company PelGar International Ltd
Unit 13 Newman Lane Industrial Estate
Newman Lane
Alton
Hampshire GU34 2QR
e-mail address philip@pelgar.co.uk
www.pelgar.co.uk
Telephone Tel +44 (0) 1420 80744
Fax Fax +44 (0) 1420 80733
Emergency telephone number Tel +44 (0) 1420 80744
Intended use Ready for use rodenticide containing 50 ppm difenacoum

2 HAZARDS IDENTIFICATION.

Labelling to Directive 1999/45 EC The preparation is non-dangerous in accordance with Directive 1999/45/EC.

Safety phrases To avoid risks to man and the environment, comply with the instructions for use.
S1/2 - Keep locked up and out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S46 - If Swallowed, seek medical advice immediately and show this container or label..

Other hazards Unlikely to cause harmful effects under normal conditions of handling and use. Harmful to Wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Difenacoum	0.005%	56073-07-5	259-978-4	T+; R28 T; R48/25 N; R50/53
Denatonium benzoate	0.001%	3734-33-6	223-095-2	Xn;R20 Xn;R22 Xi;R37 Xi;R38 Xi;R41 R52/53
propane-1,2-diol (Propane-1,2-diol particulates)	1-10%	57-55-6	200-338-0	
Kaolin (Kaolin, respirable dust)	1-10%	1332-58-7		

Print date 30-Mar-2012

Roban Pellet Bait

Revision 5
Revision date 24-Oct-2011

4. FIRST AID MEASURES

Skin contact	May cause skin irritation in susceptible persons. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention. Contaminated clothing should be washed and dried before re-use.
Eye contact	May cause eye irritation of susceptible persons. Rinse immediately with plenty of water and seek medical advice if irritation persists.
Inhalation	Unlikely to present an inhalation hazard unless excessive dust is present. Move the exposed person to fresh air. Obtain medical advice immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.
General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure. If there is no active bleeding the INR (prothrombin time) should be measured on presentation and 48-72 hours after exposure. If the INR is greater than 4, administer Vitamin K1 (phytomenadione) 5-10 mg by slow intravenous injection (100 µg/kg body weight for a child). Treatment with phytomenadione (orally or intravenously) may be required for several weeks. The advice of the National Poisons Information Service (http://www.npis.org/) should be sought, particularly if active bleeding occurs.

5. FIRE FIGHTING MEASURES

Extinguishing media	Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO ₂) Alcohol resistant foam. Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions. Do NOT use ... Do not use water jets.
Protective equipment	In the event of fire. Wear: Self-contained breathing apparatus. Suitable gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Prevent further leakage or spillage, if safe to do so.
Clean up methods	Clean up promptly by sweeping or vacuum. Transfer to a suitably labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Avoid formation of dust. Do not smoke eat or drink while handling this product. Always use good personal hygiene procedures when handling chemicals. Wash hands and face before eating, drinking or smoking. Unlikely to produce much dust as the product is pelletised. Read the label before use.
Storage	Keep in a cool, dry, well ventilated area. Keep out of the reach of children. Keep away from food and animal feedstuffs. Keep away from oxidising agents.
Specific use	Ready for use rodenticide containing 50 ppm difenacoum.

Roban Pellet Bait

Revision 5
Revision date 24-Oct-2011

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

propane-1,2-diol (Propane-1,2-diol particulates)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 10 WEL 15 min limit mg/m ³ : -
propane-1,2-diol (Propane-1,2-diol total vapour and particulates)	WEL 8-hr limit ppm: 150 WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 474 WEL 15 min limit mg/m ³ : -
Kaolin (Kaolin, respirable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 2 WEL 15 min limit mg/m ³ : -

Respiratory protection Wear suitable respiratory protective equipment (disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent) when decanting the product.

Hand protection Impervious gloves recommended.

Eye protection Tight fitting goggles if exposed to excessive dust.

Protective equipment Impervious clothing. Boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Pellets
Colour	Blue. Green or Red.
Odour	Slight.
Relative density	0.6 - 0.7

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidising agents.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Difenacoum	Oral Rat LD50 = 1.8 mg/kg Dermal Rat LD50 = 51.5 - 63 mg/kg Inhalation Rat LC50/4 h = 16.27-20.74 µg/l
Denatonium benzoate	Oral Rat LD50 = 749 mg/kg Inhalation Rat LC50/4 h = 0.2 mg/l
propane-1,2-diol	Oral Rat LD50 = >2000 mg.kg

Acute toxicity ORL RAT LD50 approx. 30g/kg (calculated).

Corrosivity No irritation expected.

Sensitization Flour dust is a respiratory sensitiser causing asthma. As the product is a pellet it is unlikely to create sufficient dust to cause any problems.

Mutagenic effects No evidence to suggest anticoagulant rodenticides are mutagenic.

Carcinogenic effects No evidence to suggest anticoagulant rodenticides are carcinogenic.

Roban Pellet Bait

Revision 5
Revision date 24-Oct-2011

12. ECOLOGICAL INFORMATION

Ecotoxicity As the product contains 50ppm difenacoum , unlikely to be hazardous to aquatic life.

Difenacoum	Algae EC50/72h = 0.51mg/l Rainbow trout LC50/96h = 0.33 mg/l Daphnia LC50/48h = 0.91 mg/l
propane-1,2-diol	Daphnia EC50/48h = 4850 mg/l Fish LC50/96h = 4600 mg/l

Further information Harmful to wildlife. Read all precautions before use.

13. DISPOSAL CONSIDERATIONS

General information Dispose of as hazardous waste in compliance with all local and national regulations.
Hazardous Waste Code 20 01 19

Disposal of packaging Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Further information Not classified as dangerous for transport.

15. REGULATORY INFORMATION

Labelling The product is classified as non hazardous and is labelled in accordance with Biocides Directive 98/8 EEC.
Read the label before use.

Safety, Health and Environmental Regulations Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010.
Biocides Directive 98/8 EEC.

16. OTHER INFORMATION

Text of risk phrases in Section 3. R20 - Harmful by inhalation. R22 - Harmful if swallowed.
R/28 - Very toxic if swallowed. R37 - Irritating to respiratory system. R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
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.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted use Ready for use rodenticide containing 50 ppm difenacoum.

Further information Approved under the Biocides Directive 98/8 EEC. Authorisation Number UK-2011-0091

Data sources Raw material suppliers Safety Data Sheets. CHIP 2009 EH40

Revision This document differs from the previous version in the following areas:
12 – Ecotoxicity

Material Safety Data Sheet

Page 1 of 4

Infosafe No. 1BFNH Issue Date : November 2005 RE-ISSUED by BASFANZ

Product Name : **STORM* SECURE WAX BLOCK RODENTICIDE**

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name BASF Australia Ltd (ABN 62 008 437 867)
Address 500 Princes Highway Noble Park
Victoria 3174 Australia
Emergency Tel. 1800 803 440 (24h)
Tel/Fax Tel: +61 3 9212 1500 Fax: +61 3 9212 1511
Other Information BASF New Zealand Limited
3 Airpark Drive, Airport Oaks, Manukau
P.O. Box 407, Auckland 1015
Phone: + 64 9 255 4300
Fax: + 64 9 255 4307
E-mail address: reception@basf-nz.co.nz
Emergency advice: 0800 944 955 (24h)
National Poisons Centre - 24 hour Urgent Information: 0800 764 766
National Poisons Centre - Non-Urgent Information: +64 3 479 7248

IDENTIFICATION

Product Name STORM* SECURE WAX BLOCK RODENTICIDE
Proper Shipping Name None Allocated
Other Names Name Product Code
Flocoumafen
UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated
Poisons Schedule S6
Product Use Rodenticide.

Physical Data

Appearance Light blue pillow-shaped blocks
Melting Point Not available
Boiling Point Not available
Vapour Pressure < 0.001 mm Hg (20'C)
Specific Gravity Not applicable
Flash Point Not flammable
Flamm. Limit LEL Not applicable
Flamm. Limit UEL Not applicable
Solubility in Water Insoluble in water

Other Properties

Volatile Component Not available
Autoignition Temp. Not available
Evaporation Rate Not available
Vapour Density Not available

Ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
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Material Safety Data Sheet

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Infosafe No. 1BFNH Issue Date : November 2005 RE-ISSUED by BASFANZ

Product Name : **STORM* SECURE WAX BLOCK RODENTICIDE**

Not classified as hazardous according to criteria of NOHSC

Flocoumafen	90035-08-9	0-0.01 %
Inerts in flocoumafen master mix		0-1 %
Blue dye		0.1 %
Wax powder		25 %
Flour		36-37 %
Cut wheat		36-37 %

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Toxic as below.
Acute - Eye	Not irritant.
Acute - Skin	Not irritant and not a dermal sensitizer.
Acute - Inhaled	Little inhalation hazard if used in the correct manner.
Chronic	Because of the acute toxicity of flocoumafen and its intended use as a rodenticide, chronic toxicity studies have not been carried out. However, cumulative effects of flocoumafen are grossly abnormal prothrombin values resulting in widespread haemorrhage, reduced clotting function and degenerative changes to the liver.
Other Information	Hazardous if ingested but large quantities would be needed to produce a toxic effect. Practically non-hazardous by skin contact. The product contains a water soluble dye. If ingested or contact is made with the skin, a stain may appear around the mouth or on contaminated skin indicating that exposure has occurred.

First Aid

Swallowed	Poisonous if swallowed. OBTAIN MEDICAL ATTENTION IMMEDIATELY. Vitamin K1 (phytomenadione is antidotal).
Eye	Flush eyes with water.
Skin	Remove contaminated clothing and wash skin thoroughly with soap and water.
Inhaled	Remove to fresh air.
Other Information	If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126 Australia-wide.

Advice to Doctor

Advice to Doctor	The active constituent flocoumafen is an indirect blood anticoagulant. Ingestion of a relatively large quantity of bait would be required before a toxic effect is expected. In general, an increased tendency to bleed could indicate poisoning. Vitamin K1 (phytomenadione) is antidotal. In cases of suspected poisoning, determine prothrombin time not less than 18 hours after consumption. If elevation has occurred, administer Vitamin K1, intravenously in divided doses, 40mg for adults, 20mg for children daily. Treatment may be required daily for several weeks. Withdraw antidote with care and monitor prothrombin times continuously for 4 days or more after such withdrawal.
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Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits	Grain dust, 4 mg/m ³
Eng. Controls	Do NOT inhale dust.

Personal Protection

Material Safety Data Sheet

Page 3 of 4

Infosafe No. 1BFNH Issue Date : November 2005 RE-ISSUED by BASFANZ

Product Name : **STORM* SECURE WAX BLOCK RODENTICIDE**

Not classified as hazardous according to criteria of NOHSC

Other Information Avoid contact with skin and eyes. When using the product, wear elbow-length PVC gloves. If on skin and after each baiting, wash thoroughly with soap and water. After each day's use, wash gloves.

Flammability

Fire Hazards Not flammable.

SAFE HANDLING INFORMATION

Storage and Transport

Storage and Transport Store in the closed, original container in a safe place. Containers which have held bait should not be used for any other purpose. Pest Control Operations should dispose of empty containers, used bait stations and unused or untaken bait by burying in an approved dump. In a domestic situation, minimize the presence of excess baits. When unused baits are in good condition, return to original container for reuse. For empty containers, damaged or unwanted baits, wrap securely and dispose of in household refuse bin. Look for dead rats or mice and burn or bury them. Do NOT place in refuse bins or rubbish tips. Ensure baits are removed when rodent activity has ceased. Ensure containers are correctly labelled and securely sealed. Not classified as a dangerous substance for transport purposes. Eye wash and washing facilities must be readily available.

Proper Shipping Name None Allocated

Spills and Disposal

Spills & Disposal Clear area of all unprotected personnel. Wear protective equipment. Stop spillage if safe to do so by manoeuvring the container. Place product from damaged container into a clean empty drum remote from storage area and label. If the damaged container can be repacked, contact BASF Australia Ltd, so that an overdrum and transport to a nominated BASF location can be arranged. If possible, re-use the material for its intended purpose. Do NOT flush to drains or sewers. Do NOT contaminate streams, rivers or water courses. Sweep up carefully with brush or broom avoiding dust evolution. Place material in open top drum. Seal drum and bury in an area approved by the local waste disposal authority. Wash surfaces with detergent solution. Destroy empty containers by puncturing or shredding them. Dispose of the containers at a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should NOT be burnt.

Fire/Explosion Hazard

Fire/Explos. Hazard Use dry powder, CO2 foam or water spray extinguishers. Unburned flocoumafen may be carried in the smoke from a fire. Wear full protective clothing and self-contained breathing apparatus. Confine the use of water to the cooling of unaffected stock, thus avoiding the risk of accumulation of polluted water from the run-off from the side. Decontaminate protective clothing before removal.

Hazchem Code None Allocated

OTHER INFORMATION

Toxicology Acute oral rat: LD50 15,492 mg/kg (STORM Wax Block Bait)
Acute dermal rat: LD50 40,600 mg/kg (calculated)

Material Safety Data Sheet

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Infosafe No. 1BFNH Issue Date : November 2005 RE-ISSUED by BASFANZ

Product Name : **STORM* SECURE WAX BLOCK RODENTICIDE**

Not classified as hazardous according to criteria of NOHSC

Other Information ECOLOGICAL INFORMATION
PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
This bait is hazardous to pigs, cats, dogs, poultry, birds and wildlife. Do NOT place baits in locations which are accessible to other animals or birds. Do NOT contaminate ponds, streams, rivers or waterways with the bait or used containers.
The use of this product for the control of protected native rodents requires permission from wildlife authorities.

Persistence / Degradability Not readily biodegradable.

Ecotoxicity Toxic to mammals. Moderately toxic to birds. Practically non-toxic to fish and other aquatic species. Rodenticide baits and dead rodents can be attractive to mammals and are therefore hazardous to domestic animals and to wildlife.

CONTACT POINT

Contact Regulatory Affairs Officer (Aus) Tel: +61 3 9281 6346 Fax: +61 3 9281 6346
Business Support (NZ) Tel: 0800 932 273 Fax: 0800 940 000

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. It should be read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.
...End Of MSDS...

MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Snake-A-Way

Synonyms: Not applicable

Molecular Formula: Not applicable

Molecular Weight: Not applicable

Product Number: FIN 362; 363; 364; 3644; 36448; 366; 364PC

Supplier:

Dr. T's Nature Products, Inc.

P. O. Box 682, 2658 US Hwy 19 North

Pelham, GA 31779

Emergency Telephone: 1-800-299-6288

Intended Use: Snake repellent

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Solid

Color: Light tan

Odor: Mothball

WARNING!

Harmful if swallowed.

Causes skin and eye irritation.

May cause allergic skin reaction.

Dust or vapor causes irritation to eyes and respiratory tract.

Potential Health Effects

Inhalation: Causes irritation. Inhalation of dust or vapors can cause headache, nausea, vomiting, and disorientation.

Eye Contact: Causes irritation. Exposure may cause eye tearing, redness and discomfort

Skin Contact: Causes irritation. May cause sensitization by skin contact. Exposure may cause redness, itching and inflammation.

Ingestion: Harmful if swallowed. May cause systemic effects. Extremely large oral dosages may produce gastrointestinal disturbances.

Chronic Health Effects: Possible cancer hazard – may cause cancer based on animal data. Repeated or prolonged exposure can cause target organ damage. Effects may be delayed. Chronic inhalation, skin absorption or ingestion of naphthalene has caused severe hemolytic anemia.

Target Organ(s): Eye, skin, lung, gastrointestinal tract, blood, CNS, kidney, liver

OSHA Regulatory Status: Hazardous

3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component	CAS-No.	Weight %
sulfur	7704-34-9	28
naphthalene	91-20-3	7
inert ingredients	not applicable	65

4 FIRST AID MEASURES

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

Ingestion: If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, dry chemical, carbon dioxide

Unsuitable Extinguishing Media: None known

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: None known

Hazardous Combustion Products: Carbon oxides, sulfur oxides

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment. See Section 8.

Spill Cleanup Methods: Minimize dust generation and accumulation. Sweep up and place in a clearly labeled container for chemical waste. Do not allow material to enter drains or streams.

7. HANDLING AND STORAGE

Handling: Wear appropriate personal protective equipment. Avoid breathing dust or vapor. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from strong oxidizing agents. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Keep container tightly closed until ready for use. Keep in a cool, well-ventilated place. Keep away from moisture.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Naphthalene	ACGIH	TWA	10 ppm	Irritation; ocular; blood
Naphthalene	ACGIH	STEL	15 ppm	Irritation; ocular; blood
Naphthalene	OSHA Z-1	TWA	10 ppm	--
Naphthalene	NIOSH	IDLH	250 ppm	--

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants below established exposure limits.

Respiratory Protection: If engineering controls do not keep airborne concentrations below established exposure limits, wear a NIOSH-approved respirator equipped with high-efficiency particulate filter(s). Contact health and safety professionals for specific information.

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Wear protective gloves and clothing. Contact health and safety professionals for additional information.

Skin Protection: Wear disposable coveralls, lab coat, or apron to prevent skin contact.

Hygiene Measures: Eye bath, washing facilities

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Light tan

Odor: Mothball

Odor Threshold: No data available

Physical State: Solid

pH: No data available

Boiling Point: 444°C (831°F)

Melting Point: No data available

Flash Point: Not applicable, combustible solid

Evaporation Rate: No data available

Flammability Limit – Upper (%): Not applicable

Flammability Limit – Lower (%): Not applicable

Vapor Pressure: 0.04 mmHg @ 21°C

Vapor Density (Air=1): No data available

Specific Gravity: 0.432

Solubility in Water: Insoluble
Solubility (Other): No data available
Partition Coefficient (n-Octanol/water): No data available
Autoignition Temperature: Not applicable
Decomposition Temperature: No data available

10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: The reaction between water and molten naphthalene may be violent.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides; sulfur oxides

Hazardous Polymerizations: Will not occur.

11 TOXICOLOGICAL INFORMATION

Specified Substances

Acute Toxicity

Chemical Name	Test Results
Naphthalene	Eye (Rabbit): Mild
Naphthalene	Skin (Rabbit): Mild
Naphthalene	Dermal LD ₅₀ (Rat): >2500 mg/kg
Naphthalene	Oral LD ₅₀ (Rat): 490 mg/kg
Naphthalene	Inhalation LC ₅₀ (Rat): >340 mg/m ³ /1H
Sulfur	Eye (Human): Irritant 8 ppm
Sulfur	Oral Lethal Dose (Rat): >8437 mg/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Naphthalene	2B (Possible carcinogenic to humans)	Anticipated carcinogen		A4 (Not classifiable as a human carcinogen)

12 ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose in accordance with applicable federal, state, and local regulations.

Disposal Methods: No specific disposal method required.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14	TRANSPORT INFORMATION
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DOT: Not Regulated

Reportable Quantity: (Naphthalene 1428 lbs; 648 kg)

TDG: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

15	REGULATORY INFORMATION
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Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D1B, D2A, D2B

Inventory Status

This product or all components are listed on the following inventory: TSCA, DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4):

Component	Reportable Quantity
Naphthalene	100 lbs

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Concentration
Naphthalene	91-20-3	99.95%

Clean Air Act (CCA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:
Naphthalene

Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40CFR 63.74): None

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR 68.130): None

Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15): Naphthalene

Clean Water Act Section 311 Hazardous Chemical (40 CFR 116.4): Naphthalene

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Naphthalene

Drug Enforcement Act:

Drug Enforcement Administration (21 CFR 1310.02(b) and 1310.04 (f)(2)): None

Drug Enforcement Administration (21 CFR 1310.12(c)): None

TSCA:

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Naphthalene

TSCA Section 12(B) Export Notification (40 CF\$ 707, Subpt D): Naphthalene

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product contains a chemical known to the State of California to cause cancer or reproductive toxicity:

California Prop 65 chemical: Naphthalene

Massachusetts Right-To-Know List: Naphthalene; sulfur

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): None

Minnesota Hazardous Substances List: Naphthalene

New Jersey Right-To-Know List: Naphthalene; sulfur

Pennsylvania Right-To-Know List: Naphthalene; sulfur

Rhode Island Right-To-Know List: Naphthalene; sulfur

16	OTHER INFORMATION
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Hazard Ratings

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	2	1	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	2*	1	0

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; *- Chronic health effect

Revision Information: Remove flammable statements

Issue Date: 04/04/2006**Supersedes Date:** 10/26/2005

Disclaimer: The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury, and expense arising out of products improper use. No warranty expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may not be covered in this MSDS. The user is responsible for full compliance.



TYPES OF EQUIPMENT IN OUR OPERATIONS



TYPES OF EQUIPMENT IN OUR OPERATIONS

ULV Fogging machine car-mounted:



ULV equipment is projected to make tiny droplets, thus ensuring even coverage with low volumes & works by compressing pesticides or disinfectants through a specially designed nozzle, creating a fine cold mist or spray can.

Thermal fogging Machine (Vehicle-mounted) & Hand carry fogging machine:



Thermal Fog Generators Foggers produce tiny dense droplets that will carry into nearly all the air space in a building; the small droplets could penetrate airspaces floating in the air for a long time. Thermal fogging is ideal for exterior use to disinfect combat vector carriers and pests, such as mosquitoes & flies. This misting method is unsuitable for applying in closed indoor spaces due to the exhaust gases they create.



HAND SPRAYER: (Portable)



VEHICLE MOUNTED HIGH-PRESSURE PUMP



Hand sprayer, spraying with fine mist nozzle for residual treatment. The vehicle-mounted high-pressure spray is used in large areas for disinfection and waste, yard peculiar smell elimination, sterilization, de-insectization, and epidemic prevention. A conscientious applicator will move about with a low-pressure-high, intensity type of diligence and reach all areas.



DOG CAGE



RAT CAGE



INDOOR MIST SPRAYER:



The Mist Electric Atomizer, an ultra-low volume machine, produces 22–46-micron particles that are perfect when you want to Penetrate cracks and crevices. It can be moved from room to room to fog a house and is excellent for large constructions with open spaces.

HAND DUSTER:



Insecticide dust is suitable for treating behind. Skirting boards, headboards, wall voids, attics, and crawl spaces. Essentially, any enclosed area is harborage or a travel route for crawling pests.



ELECTRIC DUSTER:

This duster is for treating large spaces with Horizontal and vertical surfaces with a covering of debris. Is. The larger tank can hold enough dust to treat attics and crawl spaces without refilling.



CERTIFICATION OF PESTICIDE SAFETY

This is to certify that all pesticides & materials used in our professional Disinfectant & Pest control service are; Low Toxicity & odorless or with acceptable odor, nonflammable, no straining, non-corrosive and harmless to humans, domestic animals, green plants, and all decorative materials.

These pesticides are environmentally among the safest & they are registered with the Environmental Protection Agency (EPA) & approved for specialized use by The World Health Organization (WHO) & The Food & Drugs Administration Authority (FDA) for utilization in public health pest control operation in Residential, Food handling area, Health care centers (Hospitals & Clinics), Hotels & other sensitive areas.

**Best Regards,
Candle Light Pest & Termite Control,
Customers Safety & Technical Department.**



OUR MAJOR CLIENT'S REFERENCE



OUR MAJOR CLIENTS REFERENCE

- 1 [Saudi Oger-Projects](#)
Prince Norah University-Project
Security & Protection Uint Force-Project
King Abdulla Financial District-Project
New NAJD School-Projects
N.B.A Private Residence-Project
Al Samriyah Farm, Phase-2-Project
- 2 [Contracting & Construction Ent.](#)
SCECO PP 10, C&ITC-Project
C&CITC Main Building Project.
C&ITC Convention Hotel Project.
Al Rajhi Head Quarters Building Project
KAJD-Tadawul-Project
- 3 [Saudi Arabian Saipem Ltd](#)
KCC Aramco Project Camp
Dammam Aramco Camp.
Dharan Aramco Camp.
Manifa Aramco Project Camp
- 4 [Dar Al Azyz Trading & Corp.](#)
Citymax showroom Project
- 5 [Al Bandar International Trading](#)
City Plaza Project
- 6 [Ahmed Zaki & Resources.](#)
King Faisal Colleague Project
- 7 [Dar Al Swaikan Contraction](#)
8 Villas Project
- 8 [Dar jana Group](#)
80 Villas Compound Project
- 9 [Shabbad Contraction](#)
40 Villas Compound Project
- 10 [Landmark Group.](#)
All Centrepoint Showrooms in Riyadh
All Homecentre Showrooms In Riyadh
All Iconic Showrooms in Riyadh-Hail
Citymax showrooms
All Al Bandar Warehouses
- 11 [Sinopec](#)
20 Sino Rigs
- 12 [Daqing Saudi Arabia Ltd.](#)
4 DQ Rigs
- 13 [Radisson Hotel](#)
Complete Hotel & facilities
- 14 [Suedrohrbau S.A. Ltd.](#)
Saudi Aramco Project Camp
- 15 [Energy & Power Contracting Co. Ltd.](#)
EPC-PS#-3, PS#-6 & PS-10 - Aramco project Camps
- 16 [Saipem Taqa Al Rushaid Fabricators Co. Ltd.](#)
Saudi Aramco Offices, Warehouse
Fabrication Yard Facilities
- 17 [Archirodon El Seif Consotium](#)
Tanajib Saudi Aramco Facilities
- 18 [Babcock Borsig Service Arabia Ltd.](#)
Juaymah Power Plant Camp
Qurayah Power Plant Camp
Ghazlan Power Plant Camp
- 19 [Al Bawani Construction Company](#)
Abdulillah BinAbdulaziz Palace.
- 20 [HRH Prince Turkey Bin Nasser Bin Abdulaziz
Palace Exit-2](#)
- 21 [Intercontinental Hotel Corporation](#)
Complete Hotel & facilities
- 22 [National Company for Sulphur Product.](#)
Warehouse & Office
- 23 [Babcock Borsig Service Arabia Ltd.](#)
Juaymah Power Plant Camp
Qurayah Power Plant Camp
Ghazlan Power Plant Camp
- 24 [ENSCO](#)
7 Offshore Rigs
- 25 [National Company for Sulphur Product.](#)
Warehouse & Office
- 26 [Al Hoshani Plastic Co.](#)
Plastic Production Factory & Office
- 27 [Kanooz Contracting Est.](#)
Office, Warehouse & Camp
- 28 [Masah Specialized Construction Co.](#)
Dr. Sulaiman Al Habib Palace Project
- 29 [Creet International Cont. Co. Ltd.](#)
KKIA-Air Freight Terminal Project
Agility 3 Warehouse Project
- 30 [Mada'in Co. Ltd.](#)
AL Asalah Housing Project
- 31 [Al Mabda Contracting Company](#)
National Housing Project-Al Mashriqia.



- 32 COSL Drilling Saudi Ltd.
- 33 Saeed Ghodran Group
- 34 Tekfen Construction & Installation Co.
- 35 United Catering Co.
- 36 Eram Contracting Co.
- 37 Al Shalawi Est.
- 38 Al Waha Garden Village Compound Riyadh
- 39 LG Shaker Co. Ltd.
- 40 Emtayz Catering Company
- 41 Wurth Saudi Arabia LLC
- 42 Yuksel Insaat A.S.
- 43 Nesma & Partners Contracting Co. Ltd.
- 44 First Period Company
- 45 Al Salamah Contracting Co.
- 46 Abdellah Ali al Salamah Real Estate Office
- 47 Abdullah Ibrahim Al Shaalan Est.
- 48 Abdul Majeed Saleh Al Mandeel
- 49 Ahmed Abduljalil Alelewie Trading Est.
- 50 Al Babtain Leblanc
- 51 Al Hayat National Schools Co. Ltd.
- 52 Al Jabreen Trading & Cont. Co.
- 53 Al Jabr Holding
- 54 Al Khodari Co. Ltd.
- 55 Al Kifha Contracting Company
- 56 Al Saad General Contracting Co. Ltd.
- 57 Al Manar Arabian Corp.
- 58 Al Robayb Est. for Cont.
- 59 Al Mashfa Health Center
- 60 Alomar Furniture Trading Co.
- 61 Al Rajhi Specialist Company
- 62 Al Rashid Tyres Co.
- 63 Al Yemni Motor Company
- 64 Arkan Overseas Company LLC
- 65 Arnaout Contracting Company
- 66 Asmael General Contracting
- 67 Branch of Sinohydro Corporation Ltd.
- 68 Building specialized Contracting Co.
- 69 Creet International Cont. Co. Ltd.
- 70 Dafadef Trading Group
- 71 Daily Food Company
- 72 Dar Al Azaya Int'l
- 73 DCC International
- 74 Eastern Trading & Contracting Company
- 75 Elmexal Arabia Company
- 76 Emtayz Catering Company
- 77 Fatayerji Trading & Contracting Co.
- 78 Flexible Building
- 79 Golden Side Trading Company
- 80 Hanbo Engineering & Construction Co. Ltd.
- 81 Handle Logistic For Event
- 82 Heet Metal Factory
- 83 Hidada Contracting Co. Ltd.
- 84 Honeywell Arabia Ltd.
- 85 Al Samriyah Farm
- 86 Arnon Plastic
- 87 Kaefer Saudi Arabia Co.
- 88 Khamis Al Sharjah Cont. Est.
- 89 Larsen & Toubro SA
- 90 LE Premier Architects Eng. Cont. Co.
- 91 Limaar Contracting Co.
- 92 Mas Powermech Arabia
- 93 Mastoura for Contracting Co. Ltd.
- 94 Meed Trading Company
- 95 Modern Exhibition Art Concept Co.
- 96 More Care International Co.
- 97 National Sulphur Co. Limited
- 98 Nesma Joint Venture
- 99 Oasia Express Logistics Service Est.
- 100 Omer Suleiman Al Abdullatif Real Estate Office
- 101 Operation Allience OPS Co.
- 102 Orbit Development Contracting Co.
- 103 Oscar Furniture
- 104 Overseas Cont. Co.
- 105 Puli Mahesh Lunch Home
- 106 Qudurat Media Company
- 107 Quwat Al Tatweer Est.
- 108 Ram Dental Care
- 109 Rare & Basic Showroom Riyadh
- 110 Saleh Hussein Salem Al Salama Company
- 111 Saudi Amana Contracting Co. L.L.C.- K.S.A
- 112 Saudi Archirodon Ltd.
- 113 Saudi House Department Store
- 114 Takween Company
- 115 Saudi Specialize Ind. Serv.
- 116 Saudi Swiss Consultant
- 117 Sedres Maritime Co. Ltd.
- 118 Specialized Liposuction Int'l Med. Co.
- 119 Speed Business Achievement Suppling Est.
- 120 Star Specialty Company
- 121 Steel Pioneers Factory



- 122 Watania Steel
- 123 Zakher Marine Intel. Inc.
- 124 EL Seif Engineering Contracting Company
- 125 Ministry of Agriculture Al Salamah Co. Ltd.
- 126 Quwat Al Tatweer Est.
- 127 Khalid Al Ateek Cont. Est.
- 128 Al Metrek Medical Company
- 129 Sudair Factory Furniture
- 130 ZP Arabia Drilling Company Ltd.
- 131 Flavour of India Hotel
- 132 Alaa Industrial Equip. Co.
- 133 Emaar Housing Construction Co.
- 134 Al Amal Est.
- 135 Al Hoshani Plastic Co.
- 136 Snamprogetti Saudi Arabia Co. Ltd.
- 137 AES Arabia Ltd.
- 138 Al sharif Group & KEC Ltd.
- 139 Limaar Contracting Co.
- 140 Abaad Cont. Est.
- 141 Ahmed N. Al Binali & Sons Co.
- 142 Energy & Power Contracting Co. Ltd.
- 143 Al Robaya Est. for Cont.
- 144 Sondos
- 145 Arabian Gulf Constriction
- 146 Zamil Operations & Maintenance Co. Ltd.
- 147 Delmon Company Ltd.
- 148 Doosan Heavy Industries & Construction Co. Ltd.
- 149 Almajwal Group
- 150 Dar Al Azya Trading & Corp.
- 151 Al Bawani Co. Ltd.
- 152 Nintynine Furniture Showroom
- 153 Shams Mohsen Al-Marzouq Est.
- 154 Elight Furniture Showroom & Warehouse
- 156 Al Jabar Automotive (KIA)
- 157 Bupa Arabia Head Office Riyadh
- 158 Fitness First Company Ltd.
- 159 Shahad Alsharra Trading
- 160 Al Jabr Trading Co.
- 161 Atheeb Maintenance & Services Co.
- 162 Saudi Arabian Ductile Iron Pipes Co. Ltd.
- 163 Fahad Tanayyan Al Thanayyan & Partners
- 164 Compass Arabia Ltd.
- 165 The International Electrical Products Co.
- 166 Catering International & Services Arabia
- 167 National Factory for Processing & Treating Minerals
- 168 Ketteneh-Qassim Combined Power Plant Project
- 169 Al Abullatif Industrial Company
- 170 Arnon Plastic Factory
- 171 Al Rawabi Trading.
- 172 Middle East Development Company
- 173 HRH Nayyara Banquet Hall