

SAFETY DATA SHEET: KAS™ Professional Ant Sand Granule

1. IDENTIFICATION

Product Name: KAS™ Professional Ant Sand Granule
Other Names: None
Recommended Use: Insecticide
Supplier: Key Industries Ltd
Address: P.O. Box 65070, Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 494 1659
National Poisons Centre: 0800 POISON (0800 764 766)

2. HAZARDS IDENTIFICATION

Hazard Classifications: 9.1C 9.4B

Hazards: Approved Handler Applies

9.1C Harmful to aquatic life with long lasting effects.

9.4B Toxic to terrestrial invertebrates. Insecticide.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Quartz	14808-60-7	99.5%
(Fipronil)	120068-37-3	0.25%
Balance- ingredients of proprietary nature	Proprietary	to 100%

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning.

EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT: After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

INGESTION: Rinse mouth immediately and then drink plenty of water, seek medical attention.

Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician:

Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring - due to slow elimination of the compound.

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5. FIRE FIGHTING MEASURES

Flash Point: - Not applicable

Extinguishing Media – Carbon dioxide, dry chemical, foam, water fog

Fire and Explosion Hazards – If significant quantity of this product is involved in a fire, call the fire brigade. Fire decomposition products from this product may form toxic mixtures in confined spaces.

Fire fighting equipment – When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

6. ACCIDENTAL RELEASE MEASURES

Small Spills

Wear appropriate protective clothing whilst cleaning up small spills (see Personal Protection). Apply absorbent material such as earth, sand or clay granules to the spill. Sweep up material for disposal when absorption is complete. Clean up minor spills immediately.

Large Spills

Wear protective clothing. Clear the area of all unprotected personnel. Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or clay granules to spill area. Form a barricade around the spill and in front of drains or waterways in spill vicinity, using earth or other available material. Prevent entry of material into drains or water ways.

Waste Disposal Method

Contaminated absorbent and wash water should be disposed of according to local regulations under the Resource Management Act. Avoid contamination of any water supply with chemical or empty container.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear waterproof gloves and long sleeved clothing. Wear approved safety glasses or goggles. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, feed, or food by storage, handling, or disposal.

Read and observe all precautions and instructions on the label. Avoid contact with food, clothing, medicines or other household goods during transportation.

Conditions for safe storage

Store containers upright and closed. Store in a cool, dry place away from direct sunlight and in well-ventilated areas. Avoid freezing and keep away from heat and strong oxidizers. Emptied containers may retain product residues and therefore require rinsing before disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour and 5 day week has not been established for any of the ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established.

Engineering Controls: Use in well ventilated areas. No special engineering controls are required for normal use
Keep containers closed when not in use.

Hygiene Controls: Facilities for storing or utilizing this material should be equipped with an eyewash facility, safety shower and facility for washing hands and face after work.

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EXPOSURE CONTROLS / PERSONAL PROTECTION – Continued

Personal Protective Equipment

Respiratory Protection: Generally not required.

Eye Protection Wear approved safety glasses.

Skin/Body Protection Wear waterproof gloves and cover exposed arms and legs. Practice normal hygiene when opening the container and using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Granules
Colour	Tan to light brown
Melting Point	Not available
Boiling Point	Not applicable
Vapor Pressure	Negligible
Bulk Density	1.40 – 1.60 g/mL
Flashpoint	Not flammable
Solubility in Water	Insoluble
Specific Gravity	Not available

10. STABILITY AND REACTIVITY

Stability Product is considered stable at normal temperature and pressure

Dangerous Reactions None known

11. TOXICOLOGICAL INFORMATION

Inhalation	Inhalation of dust of this very dilute material is unlikely to result in any toxic effects attributable to fipronil.
Ingestion	Possible symptoms of exposure include: headache, nausea, dizziness and weakness. Ingestion of large quantities of the concentrate may result in convulsions.
Skin	Not a skin irritant and not harmful by dermal exposure.
Eye	May irritate the eyes.
Reproductive Toxicity	Data indicates no reproductive effects.
Mutagenicity	Data indicates no mutagenic effects.
Carcinogenicity	Data indicates no carcinogenic effects.

11. TOXICOLOGICAL INFORMATION - Continued

Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for the formulated product.
Acute Toxicity – Dermal	LD50 (rat) >2000 mg/kg for the formulated product.
Eye Irritation	Mild eye irritant. May cause mechanical irritation to eyes.
Skin Sensitization	Product is not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not allow any birds or animals to feed on treated turf.

Acute Toxicity - Fish The following is data for the active ingredient, fipronil.
LC50 (96hr) for rainbow trout is 0.248 mg/l.
LC50 (96hr) for European carp is 0.430 mg/l.

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12. ECOLOGICAL INFORMATION – Continued

	LC50 (96hr) for bluegill sunfish is 0.085 mg/l.
Acute Toxicity – Daphnia	LC50 (48hr) for daphnia is 0.19 mg/l for fipronil.
Acute Toxicity –	The following data is for the active ingredient, fipronil.
Other Organisms	LD50 for mallard duck is 5000 mg/kg LD50 for bobwhite quail is 48 mg/kg Highly toxic to bees both by direct contact and by ingestion.

13. DISPOSAL CONSIDERATIONS

Product Disposal

When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials. Solids must be disposed of in a permitted waste management facility. Triple rinse container and dispose of rinsate by applying to treated area to assist with 'watering in' the granules. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

14. TRANSPORT INFORMATION

UN number:	3077
Class or Division	9
Sub Class:	N/A
Packing Group:	III
Proper shipping name:	Environmentally Hazardous Substance, Solid, N.O.S (Fipronil)

15. REGULATORY INFORMATION

MPI Registration Number:	Not applicable
HSNO Approval Code:	HSR100863
HSNO Classifications:	9.1C, 9.4B
HSNO Controls:	The substance must not be applied into, onto or over water The substances must not be applied on non-porous surfaces if they are close to a water body .

16. OTHER INFORMATION

KAS™ Professional Ant Sand Granule is a Registered Trademark of Key Industries Ltd

Reasons for Issue:

Update format and content to comply with legislation.

HSNO	Hazardous Substances & New Organisms
MPI	Not a Agricultural Compound

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this SDS and consider the information in the context of how the product will be

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

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Emergency Number: 027 4941659

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handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.