

# Safety Data Sheet

## Product Identifier

### SECTION 1. IDENTIFICATION

**Product Identifier** KD169D KNOCK DOWN ECO Crawling Insect Control & Killer Bait Powder

**Other Means of Identification** KD169D

**Recommended Use** Insecticide

**Restrictions on Use** None Known

**Manufacturer**

**Company Name** Kuus Inc.

**Address** 450 Tapscott Road  
Scarborough, ON M1B 1Y4  
Canada

**Telephone** General Assistance 1-416-298-7724

**Initial Supplier** Not available.

**Emergency Telephone Number** CANUTEC 1-888-226-8832  
1-613-996-6666

### SECTION 2. HAZARD IDENTIFICATION

|   |                             |
|---|-----------------------------|
| <b>OSHA GHS HAZARD CLASSIFICATION</b>   | Not classified as hazardous |
| <b>HAZARDS NOT OTHERWISE CLASSIFIED</b> | None                        |
| <b>LABEL ELEMENTS</b>                   | No GHS labeling required    |

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT IDENTIFICATION   | APPROXIMATE CONCENTRATION (%) | C.A.S. NUMBERS | EINECS    |
|-----------------------------|-------------------------------|----------------|-----------|
| Diatomaceous Earth          | 95%                           | 61790-53-2     | 612-383-7 |
| Crystalline Silica (Quartz) | < 1%                          | 14808-60-7     | N/A       |
| Piperonyl Butoxide          | 1-5%                          | 51-03-6        | N/A       |
| Pyrethrins                  | 0.1-1%                        | 8003-34-7      | N/A       |

## SECTION 4. FIRST-AID MEASURES

|  |   |
|--|---|
| <b>EYE</b>   | Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.   |
| <b>SKIN</b>  | Use moisture renewing lotions if dryness occurs.  |
| <b>INGESTION</b>   | Drink generous amounts of water to reduce bulk and drying effects.  |
| <b>INHALATION</b>  | Remove to fresh air. Blow nose to evacuate dust.  |
| <b>Most important symptoms/effects, acute and delayed</b>                            | Dust may cause abrasive irritation to eyes. Prolonged skin contact may cause dryness. Dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of high concentration of dust may cause lung effects.. |
| <b>Indication of immediate medical attention and special treatment, if necessary</b> | Immediate medical attention is not normally required. If dust irritates the eyes, seek medical attention.   |

## SECTION 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>EXTINGUISHING MEDIA</b>  | Not applicable, the material is not combustible. |
| <b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL</b>                     | Not applicable, the material is not combustible. |
| <b>SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS</b> | Not applicable, the material is not combustible. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

|  |   |
|--|---|
| <b>PERSONAL PRECAUTIONS</b>                                  | If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles. |
| <b>ENVIRONMENTAL PRECAUTIONS</b>                             | This material is not a significant environmental concern.   |
| <b>METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP</b> | Vacuum clean spillage, wet sweep or wash away. Avoid creating dust. Place in a container for use or disposal.           |

### Notes

## SECTION 7. HANDLING AND STORAGE

|                                      |  |
|--------------------------------------|--|
| <b>PRECAUTIONS FOR SAFE HANDLING</b> | Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags. Observe all label precautions and warnings. |
| <b>CONDITIONS FOR SAFE STORAGE</b>   | Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid or strongly basic solutions.             |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE CONTROLS:

| COMPONENTS   | TYPE | VALUE  |
|--|------|--------|
| Pyrethrins (CAS 8003-34-7)   | TWA  | 5mg/m3 |
| Canada. Alberta OEL's, British Columbia OEL's, Manitoba, Ontario, Quebec |      |        |

| EXPOSURE GUIDELINES:                     |   |                     |                    |                    |
|--|---|---------------------|--------------------|--------------------|
| Component                                | OSHA PEL  | ACGIH TLV           | MSHA PEL           | NIOSH REL          |
| Diatomaceous Earth, Natural (kieselguhr) | $80 \text{ mg/m}^3$<br>% SiO <sub>2</sub><br>total dust   | None<br>Established | $5 \text{ mg/m}^3$ | $6 \text{ mg/m}^3$ |
| <b>ENGINEERING CONTROLS</b>              | Use general or local exhaust ventilation to control dust within recommended exposure limits. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.   |                     |                    |                    |
| <b>PERSONAL PROTECTIVE EQUIPMENT:</b>    |   |                     |                    |                    |
| <b>EYE / FACE PROTECTION</b>             | Goggles to protect from dust  |                     |                    |                    |
| <b>SKIN PROTECTION</b>                   | No special equipment is needed.   |                     |                    |                    |
| <b>RESPIRATORY PROTECTION</b>            | If the exposure limits are exceeded, a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. For example, if the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL), use a quarter or half-mask respirator with an N95 dust filter or a single-use dust mask rated N95. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134; or in Canada with CSA Standard Z94.4 and good industrial hygiene practice. |                     |                    |                    |
| <b>GENERAL HYGIENE</b>                   | Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking.   |                     |                    |                    |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                          |  |                |
|----------------------------------|--------------------------|--|----------------|
| <b>APPEARANCE, COLOR</b>         | Buff to off white powder | <b>ODOR</b>                                    | Odorless       |
| <b>PHYSICAL STATE</b>            | Solid                    | <b>ODOR THRESHOLD</b>                          | Not applicable |
| <b>VAPOR PRESSURE</b>            | Not applicable           | <b>VAPOR DENSITY</b>                           | Not applicable |
| <b>BOILING POINT</b>             | Not applicable           | <b>MELTING POINT</b>                           | > 1300° C      |
| <b>FLASH POINT</b>               | Not applicable           | <b>pH (10% SUSPENSION)</b>                     | 6-8            |
| <b>FLAMMABILITY LIMITS</b>       | Not applicable           | <b>EVAPORATION RATE</b>                        | Not applicable |
| <b>DECOMPOSITION TEMPERATURE</b> | > 1300° C                | <b>SPEC. GRAVITY / RELATIVE DENSITY</b>        | 2.0            |
| <b>AUTOIGNITION TEMPERATURE</b>  | Not applicable           | <b>PARTITION COEFFICIENT – n-OCTANOL/WATER</b> | Not applicable |
| <b>FLAMMABILITY (solid/gas)</b>  | Not applicable           | <b>SOLUBILITY – WATER</b>                      | < 2%           |
|                                  |                          | <b>VISCOSITY</b>                               | Not applicable |

## SECTION 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>REACTIVITY</b>                         | Material is not reactive.   |
| <b>CHEMICAL STABILITY</b>                 | Material is stable.   |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS</b> | Material is not reactive.   |
| <b>CONDITIONS TO AVOID</b>                | Not applicable  |
| <b>INCOMPATIBLE MATERIALS</b>             | Products containing silica may react violently with hydrofluoric acid and strongly basic solutions. |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>   | Not applicable  |

## SECTION 11. TOXICOLOGICAL INFORMATION

|                                       |  |
|---------------------------------------|--|
| <b>POTENTIAL HEALTH EFFECTS</b>       | See below and Section 11 for additional information  |
| <b>Likely Routes of Exposure</b>      | See below  |
| <b>EYE</b>                            | May cause irritation (tear formation and redness) if dust gets in eyes.  |
| <b>SKIN</b>                           | Not absorbed by the skin, but may cause dryness if prolonged exposure.   |
| <b>INGESTION</b>                      | Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.                                    |
| <b>INHALATION</b>                     | Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. |
| <b>CHRONIC EFFECTS</b>                | Chronic inhalation of dust in excess of the Permissible Exposure Limit (PEL) established by OSHA over a prolonged number of years may cause lung changes.          |
| <b>NTP</b>                            | Diatomaceous Earth, Natural is not classified as a carcinogen.   |
| <b>IARC</b>                           | Diatomaceous Earth, Natural is not classifiable as to carcinogenicity in humans (Group 3).   |
| <b>NUMERICAL MEASURES OF TOXICITY</b> | No data available  |

### Information on toxicological effects

#### Acute toxicity

#### Components

#### Species

#### Test Results

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

#### Acute

#### **Dermal**

LD50 Rabbit > 2000 mg/kg  
> 2000 mg/kg, 24 Hours

#### **Inhalation**

LC50 Rat > 7.5 mg/l, 6 Hours  
> 4.6 mg/l, 4 Hours

#### **Oral**

LD50 Rat > 5000 mg/kg

Isobutane (CAS 75-28-5)

#### Acute

#### **Inhalation**

LC50 Mouse 1237 mg/l, 120 Minutes  
52 %, 120 Minutes  
Rat 1355 mg/l

Piperonyl Butoxide (CAS 51-03-6)

#### Acute

#### **Dermal**

LD50 - > 2000 mg/kg

|                       |       |  |   |
|-----------------------|-------|--|---|
| <b>Inhalation</b>     |       |  |   |
| LC50                  | Rat   |  | > 5.2 mg/l, 4 Hours                         |
| <b>Oral</b>           |       |  |   |
| LD50                  | Rat   |  | > 2000 mg/kg                                |
| Propane (CAS 74-98-6) |       |  |   |
| <b>Acute</b>          |       |  |   |
| <b>Inhalation</b>     |       |  |   |
| LC50                  | Mouse |  | 1237 mg/l, 120 Minutes<br>52 %, 120 Minutes |

| Components | Species | Test Results          |
|------------|---------|-----------------------|
|            | Rat     | 1355 mg/l<br>658 l/4h |

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Components   | Species | Test Results   |
|--|---------|--|
| Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8) |         |  |
| <b>Aquatic</b>   |         |  |
| Fish   | LC50    | Rainbow trout,donaldson trout<br>(Oncorhynchus mykiss) |
|  |         | 2.9 mg/l, 96 hours                                     |
| Piperonyl Butoxide (CAS 51-03-6)                             |         |  |
| <b>Aquatic</b>   |         |  |
| Fish   | LC50    | Rainbow trout,donaldson trout<br>(Oncorhynchus mykiss) |
|  |         | 0.0027 - 0.0043 mg/l, 96 hours                         |
| Pyrethrins (CAS 8003-34-7)                                   |         |  |
| <b>Aquatic</b>   |         |  |
| Crustacea  | EC50    | Water flea (Daphnia)                                   |
|  |         | 0.018 - 0.032 mg/l, 48 hours                           |
| Fish   | LC50    | Brown trout (Salmo trutta)                             |
|  |         | 0.0165 - 0.0229 mg/l, 96 hours                         |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

### **Bioaccumulative potential**

#### **Partition coefficient n-octanol / water (log Kow)**

|                    |      |
|--------------------|------|
| Isobutane          | 2.76 |
| Piperonyl Butoxide | 4.75 |
| Propane            | 2.36 |

**Mobility in soil** No data available.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13. DISPOSAL CONSIDERATIONS

|                           |  |
|---------------------------|--|
| <b>WASTE DISPOSAL</b>     | If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations or in slurry to sumps. Not considered a hazardous waste under RCRA (40CFR Part 261). |
| <b>PACKAGING DISPOSAL</b> | Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to landfill type operations.  |

## SECTION 14. TRANSPORT INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>BASIC SHIPPING INFORMATION</b> | DOT shipping classification 55 (no restrictions). Technical name is "Diatomaceous Earth". |
| <b>ADDITIONAL INFORMATION</b>     | No special requirements or placarding necessary.  |

Marine pollutant



## SECTION 15. REGULATORY INFORMATION

### Canadian regulations

#### Controlled Drugs and Substances Act

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### Greenhouse Gases

Not listed.

#### Precursor Control Regulations

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto protocol

Not applicable.




#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

## SECTION 16. OTHER INFORMATION

|      |   |      |   |  |      |          |  |                |  |              |  |                        |  |
|------|---|------|---|--|------|----------|--|----------------|--|--------------|--|------------------------|--|
|      | <table border="1"> <tr> <td data-bbox="597 260 657 373">NFPA</td> <td data-bbox="657 260 927 373">  <p>4-Extreme<br/>3-High<br/>2-Moderate<br/>1-Slight<br/>0-Insignificant</p> </td> </tr> </table> | NFPA |  <p>4-Extreme<br/>3-High<br/>2-Moderate<br/>1-Slight<br/>0-Insignificant</p> | <table border="1"> <tr> <td data-bbox="976 239 1027 413">HMIS</td> <td data-bbox="1027 239 1295 279">0 Health</td> </tr> <tr> <td></td> <td data-bbox="1027 279 1295 321">0 Flammability</td> </tr> <tr> <td></td> <td data-bbox="1027 321 1295 363">0 Reactivity</td> </tr> <tr> <td></td> <td data-bbox="1027 363 1295 413">E Protective Equipment</td> </tr> </table> | HMIS | 0 Health |  | 0 Flammability |  | 0 Reactivity |  | E Protective Equipment |  |
| NFPA |  <p>4-Extreme<br/>3-High<br/>2-Moderate<br/>1-Slight<br/>0-Insignificant</p>   |      |   |  |      |          |  |                |  |              |  |                        |  |
| HMIS | 0 Health  |      |   |  |      |          |  |                |  |              |  |                        |  |
|      | 0 Flammability  |      |   |  |      |          |  |                |  |              |  |                        |  |
|      | 0 Reactivity  |      |   |  |      |          |  |                |  |              |  |                        |  |
|      | E Protective Equipment  |      |   |  |      |          |  |                |  |              |  |                        |  |

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