

Safety Data Sheet

MS0402

SECTION 1. IDENTIFICATION

Product Identifier	MS0402 MOSQUITO SHIELD MOSQUITO COILS	
Other Means of Identification	MS0402	
Recommended Use	Mosquito repellent (active substance on a slow burning substrate)	
Restrictions on Use	None known.	
Manufacturer	Company name:	KUUS INC.
	Address:	450 TAPSCOTT ROAD UNIT 5 & 6, SCAR, ON M1B 1Y4
	Telephone:	General Assistance 1-416-298-7724
	E-mail:	kuu@kuu.com
Supplier	N/A	
Emergency Telephone	CANUTEC	1-888-226-8832 1-613-996-6666

SECTION 2. HAZARD IDENTIFICATION

Physical hazards There is no known physical hazard to this product.

Health hazards

Inhalation: **Short Term Exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact: **Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact: **Short Term Exposure:** This product is likely to be mechanically irritating. If exposure is minor or brief, no long term effects should result. However, if material is not removed promptly, scratches to surface of the eye may result with long term consequences.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion: **Short Term Exposure:** Significant oral exposure is considered to be unlikely. However, this product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Label elements

Hazard symbol	Not hazardous
Signal word	None.
Hazard statement	None available.

Precautionary statement

Prevention	Keep out of reach of children. Use personal protective equipment as required.
Response	Rinse skin or shower with water. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. In case of fire, use carbon dioxide, dry chemical, foam, water fog.
Storage	Store in a dry place. Store in a closed container.
Disposal	Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.
Environmental hazards	Hazardous to the aquatic environment, acute hazard Hazardous to the aquatic environment, long-term hazard
Other hazards	None known.
Supplemental information	None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Carbon	7440-44-0	30-60	N/A	N/A
Other Inerts	N/A	30-60	N/A	N/A
D-trans allethrin	231937-89-6 (584-79-2)	0.35	N/A	N/A

SECTION 4. FIRST-AID MEASURES

Inhalation	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Skin Contact	Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If symptoms develop seek medical attention.
Eye Contact	Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with gently flowing water until the particles are removed, while holding the eyelid(s) open. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s). Take special care if exposed person is wearing contact lenses.
Ingestion	If product is swallowed or gets in mouth, do NOT induce vomiting; Seek medical attention immediately. If symptoms develop, or if in doubt contact a Poison Information Centre or a doctor.
Most Important Symptoms and Effects, Acute and Delayed	For symptoms and effects caused by the contained substances, see chap. 11.
Immediate Medical Attention and Special Treatment	Information not available

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	In case of fire, use carbon dioxide, dry chemical, foam, water fog.
Unsuitable Extinguishing Media	None in particular.
Specific Hazards Arising from the Product	Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. Do not breathe combustion products.
Special Protective Equipment and Precautions for Fire-Fighters	<p>GENERAL INFORMATION</p> <p>Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.</p> <p>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS</p> <p>Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
Methods for Containment and Cleaning Up	Collect the product into a suitable container.

note: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Conditions for Safe Storage	Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Exposure limits have not been established for any of the significant ingredients in this product.				

Notes	No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.
Appropriate Engineering Controls	Provide sufficient ventilation to keep airborne levels below the exposure limit.
Individual Protection Measures	
Eye/Face Protection	Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.
Skin Protection	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.
Respiratory Protection	If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask. In any fire use an approved respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black solid presented as a coil
Odour	Mild odour
Odour Threshold	Not applicable.
pH	Not applicable.
Melting Point and Freezing Point	Decomposes before melting.
Initial Boiling Point and Boiling Range	Not applicable.
Flash Point	No data.
Evaporation Rate	Not applicable.
Flammability (solid, gas)	No data.
Upper and Lower Flammability or Explosive Limit	No data.
Vapour Pressure	Not applicable.
Vapour Density (air = 1)	Not applicable.
Relative Density (water = 1)	No data.
Solubility in Water	Insoluble.
Solubility in Other	No data.

Liquids	
Partition Coefficient, n-Octanol / Water (Log Kow)	No data.
Auto-ignition Temperature	No data.
Decomposition Temperature	No data.
Viscosity	Not applicable.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Chemical Stability	The product is stable in normal conditions of use and storage.
Possibility of Hazardous Reactions	No hazardous reactions are foreseeable in normal conditions of use and storage.
Conditions to Avoid	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry.
Incompatible Materials	Water, strong oxidising agents.
Hazardous Decomposition Products	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION^[1]

Likely Routes of Exposure – For: D-Trans Allethrin

Inhalation Skin contact Eye contact Ingestion

Acute Toxicity	
LC50 (inhalation)	>1500mg/L Rat
LD50 (oral)	>5000mg/kg bw Rat
LD50 (dermal)	>5000mg/kg bw Rat
Notes	
Skin Corrosion / Irritation	Non-corrosive
Serious Eye Damage / Irritation	Non-irritating
STOT (Specific Target Organ Toxicity) - Single Exposure	N/A
Aspiration Hazard	N/A
STOT (Specific Target Organ Toxicity) - Repeated Exposure	N/A
Respiratory and/or Skin Sensitization	Respiratory sensitization: not available. Skin Sensitization: Non-sensitizing

Carcinogenicity	Non-carcinogenic
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Chemical Name	IARC	ACGIH®	OSHA

Notes	
Reproductive Toxicity	
Development of Offspring	N/A
Sexual Function and Fertility	N/A
Effects on or via Lactation	N/A
Germ Cell Mutagenicity	Non-mutagenic
Interactive Effects	N/A

SECTION 12. ECOLOGICAL INFORMATION

Insufficient data to be sure of status. Expected to not be an environmental hazard. Unused product (ie not ignited) the d-allethrin is highly toxic for aquatic organisms. In the long term, it has negative effects on aquatic environment

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

SECTION 14. TRANSPORT INFORMATION

No special transport conditions are necessary unless required by other regulations. The preparation is not classified as dangerous good.

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
Activated carbon	1362			Not regulated	

Non-combustible under normal conditions. Once ignited the fire burns slowly (smolders) with a dull glow and may be difficult to detect.

SECTION 15. REGULATORY INFORMATION

Inventory Status

Canada	One or more ingredients are on DSL
United States	One or more ingredients are on TSCA
Japan	One or more ingredients are on MITI
South Korea	One or more ingredients are on KECL

SECTION 16. OTHER INFORMATION

Date of Latest	06/07/2019
Prepared by:	KUUS Inc.
Telephone #:	1-800-267-0455

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT
