SAFETY DATA SHEET

1. Identification

Product identifier		EENHOUSE PLANT & FLOWER INSECT KILLER (0.02% Pyrethrins
Other means of identification Product code	from Chrysanthemum Flowe	er Pyrethrum)
Recommended use	KD155D Pesticide	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name Address	KUUS INC. 450 TAPSCOTT ROAD SCARBOROUGH, ON M1B 1 Canada	Y4
Telephone E-mail	General Assistance Not available.	1-416-298-7724
Emergency phone number	Canutec	1-888-226-8832 1-613-996-6666

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Combustible liquid.	
Precautionary statement		
Prevention	Keep away from heat, hot surfaces, sparks, of Keep away from flames and hot surfaces-No s clothing/eye protection/face protection.	pen flames and other ignition sources. No smoking. smoking. Wear protective gloves/protective
Response	In case of fire: Use appropriate media to extinguish.	
Storage	Store in a well-ventilated place.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
Other hazards	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Piperonyl Butoxide		51-03-6	0.1 - 1
Pyrethrins		8003-34-7	0.01 - 0.1
Other components below reportable levels			60 - 100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fir

in extinguisher, as this will spread the fire. media Specific hazards arising from The product is combustible, and heating may generate vapors which may form explosive vapor/air the chemical mixtures. During fire, gases hazardous to health may be formed. Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do equipment/instructions so without risk. **Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials. **General fire hazards** Combustible liquid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

US. ACGIH Threshold Limit Components	Values	Туре	Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
Canada. Alberta OELs (Occu Components	pational Heal	th & Safety Code, Scho Type	edule 1, Table 2) Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
Canada. British Columbia O Safety Regulation 296/97, as		ional Exposure Limits	for Chemical Substances, Occupational Health and
Components	·	Туре	Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
Canada. Manitoba OELs (Re Components	g. 217/2006, T	he Workplace Safety A Type	nd Health Act) Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
Canada. Ontario OELs. (Con	trol of Exposu	re to Biological or Ch	C C
Components	•	Туре	Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
Canada. Quebec OELs. (Min Components	istry of Labor	- Regulation Respectin Type	ng the Quality of the Work Environment) Value
Pyrethrins (CAS 8003-34-7)		TWA	5 mg/m3
ological limit values	No biological	exposure limits noted for	r the ingredient(s).
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
dividual protection measures,	such as perso	nal protective equipm	ent
Eye/face protection	Wear safety g	lasses with side shields	s (or goggles).
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable	e protective clothing.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear approp	riate thermal protective	clothing, when necessary.
eneral hygiene onsiderations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
. Physical and chemical p	properties		
ppearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Not available.		
dor	Not available.		

Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	212 °F (100 °C) estimated
range	
Flash point	145.4 °F (63.0 °C)

Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Combustible IIIA estimated
Heat of combustion (NFPA 30B)	0.19 kJ/g estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.998 estimated
VOC (Weight %)	0.2 % estimated
40 Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Piperonyl Butoxide (CAS 51-03-6)		
Acute		
Dermal		
LD50	-	> 2000 mg/kg
Inhalation	_	
LC50	Rat	> 5.2 mg/l, 4 Hours
Oral LD50	Rat	> 2000 mg/kg
LBOO	Rat	2000 mg/kg
	e based on additional compone	
Skin corrosion/irritation	Prolonged skin contact may	
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.
Respiratory or skin sensitization	n	
	OELs: Respiratory or skin se	
Pyrethrins (CAS 8003-34	7)	Capable of causing respiratory, dermal or conjunctival sensitization.
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.	
ACGIH Carcinogens		
Pyrethrins (CAS 8003-34 Canada - Manitoba OELs: c		A4 Not classifiable as a human carcinogen.
PYRETHRUM (CAS 800		Not classifiable as a human carcinogen.
	Evaluation of Carcinogenicity	
Piperonyl Butoxide (CAS		3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity		to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chronic effects.	
12. Ecological information	ı	
Ecotoxicity	Toxic to aquatic life with long	lasting effects.
Components	Species	Test Results

Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0027 - 0.0043 mg/l, 96 hours
yrethrins (CAS 8003	-34-7)		
Aquatic			
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)
Piperonyl Butoxide
```

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.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	
Class	9
Subsidiary risk	
Packing group	
Environmental hazards	Marine pollutant only when containing 10% or more substances identified as marine pollutants or severe marine pollutant when containing 1% or more substances identified as severe marine pollutants
	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Hexyl cinnamal, Benzyl benzoate)
Transport hazard class(es)	
Class	9
Subsidiary risk	
Label(s)	9
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl cinnamal, Benzyl benzoate)
Transport hazard class(es)	
Class	9
Subsidiary risk	
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

IATA; IMDG; TDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

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.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Issue date	05-16-2023
Revision date	05-16-2023
Version #	02
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.