



SAFETY DATA SHEET

EcoBarrier Prevention & EcoBarrier Eliminator

SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

1.1 Product identifier

PRODUCT NAME EcoBarrier Prevention
SYNONYM ECS-G-639
TRADE NAMES INCI NAME Natural Insecticide for Bedbug Control

1.2 Relevant identified uses of the substance or mixture and uses advised against

RECOMMENDED USE Bedbug Control Spray

1.3 Details of the supplier of the safety data sheet

SUPPLIER NAME VAMA Eco, Inc.
SUPPLIER ADDRESS 237 Kearny St., Suite 9200
San Francisco, CA 94108
CONTACT PERSON Sandeep Patil
SUPPLIER PHONE NUMBER (650) 539-5540 Office Hours are 9-5 weekdays only
EMERGENCY PHONE NUMBER (650) 539-5540

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

SKIN IRRITATION Category 3
SKIN SENSITIZATION Category 1
SHORT TERM (ACUTE) ENVIRONMENTAL HAZARD
Category 2
LONG TERM (CHRONIC) ENVIRONMENTAL HAZARD
Category 2

2.2 Label elements:



HAZARD PICTOGRAMS

SIGNAL WORD Warning, Skin sensitization, Category 1
Warning, Skin corrosion/irritation, Category 3
Short term (acute) environmental hazard, Category 2
Long term (chronic) environmental hazard, Category 2



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HAZARDOUS INGREDIENTS Cedarwood oil, geranium oil, peppermint oil, potassium oleate, butyl lactate, isopropyl alcohol

HAZARD STATEMENTS
H316 – Causes mild skin irritation.
H317 – May cause an allergic skin reaction.
H411 – Toxic to aquatic life with long lasting effects.
H401 – Toxic to aquatic life

PRECAUTIONARY STATEMENTS **P261** – Avoid breathing dust/fumes/gas/vapours/spray.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P273 – Avoid release to the environment.
P280 – Wash hands thoroughly after handling.

RESPONSE
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water)
P332 + P313 – If skin irritation occurs: Get medical advice/attention.
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
P363 – Wash contaminated clothing before reuse.
P391 – Collect spillage.

STORAGE Store in a closed container

DISPOSAL **P501** – Dispose of contents and/or container to an approved disposal plant.

2.3 Other hazards

OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION

May be harmful if swallowed. May cause eye irritation. May be harmful if inhaled. May cause respiratory tract irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

This product is a mixture.

Component Name	CAS No	%
Cedar oil	68990-83-0	2.05
Geranium Oil	8000-46-2	0.40
2-Phenethyl propionate	122-70-3	0.20
Peppermint Oil	8006-90-4	0.15
Inert ingredients		To 100%



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Disclaimer: Exact identities and/or concentrations of proprietary, non-hazardous ingredients have been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

GENERAL	Take hazard and precautionary statements into account.
EYES	Flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
SKIN	Remove contaminated clothes. Wash thoroughly with soap and water. Obtain medical advice if symptoms persists.
INHALATION	Remove person from exposure site and keep at rest. Seek medical attention if required.
INGESTION	Rinse mouth with water. DO NOT induce vomiting. Seek medical attention if required.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA	CO ₂ , dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.
UNSUITABLE EXTINGUISHING MEDIA	Do not use direct water stream. May spread fire.

5.2 Special hazards arising from the substance of mixture.

SPECIFIC HAZARDS FOR FIREFIGHTING

Water may be ineffective.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO₂), peroxides.

5.3 Advice for firefighters

PROTECTION DURING FIREFIGHTING

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES



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6.1 Personal precautions, protective equipment, and accidental emergency procedures

PRECAUTIONS FOR SAFE HANDLING Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

6.2 Environmental precaution

ENVIRONMENTAL PRECAUTION Prevent from entering soil, ditches, sewers, waterways, and/or groundwater.

6.3 Methods and materials for containment and cleaning up.

FOR CONTAINMENT AND CLEAN UP Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillage should be contained by use of sand or inert powder and disposed of according to the local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

PRECAUTIONS FOR SAFE HANDLING As with any all-natural essential oil products, keep out of reach of children and animals. Prevent from freezing or excessive heat temperatures. Avoid any contact with eyes or ingestion. Ensure good ventilation of the workstation. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Avoid excessive inhalation of concentrated vapors, contact with skin and eyes. Follow good manufacturing practices for housekeeping and personal hygiene. Contaminated clothing and shoes should be thoroughly cleaned before re-use. Keep away from ignition sources and naked flame.

7.2 Conditions for safe storage, including any incompatibilities.

STORAGE CONDITIONS Store in a cool, dry ventilated area away from heat sources. Keep containers tightly closed when not in use.

INCOMPATIBLE MATERIALS Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

CONTROL PARAMETERS If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Material	Type	Exposure Limit Value	Source
Butyl lactate	TWA	5 ppm	US.ACGIH Threshold limit value
Butyl lactate	TWA	5 ppm	US. NIOSH: Pocket Guide to Chemical Hazards
Isopropyl alcohol	PEL	980 mg/m ³ , 400 ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)



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Isopropyl alcohol	STEL	400 ppm	US ACGIH Threshold Limit Values
Isopropyl alcohol	TWA	200 ppm	US ACGIH Threshold Limit Values
Isopropyl alcohol	STEL	1225 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards
Isopropyl alcohol	TWA	500 ppm, 980 mg/m ³ , 400 ppm	US. NIOSH: Pocket Guide to Chemical Hazards

8.2 Exposure Controls

ENGINEERING CONTROLS	Ensure good ventilation of the workstation.
SKIN PROTECTION	Avoid skin contact. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.
EYE PROTECTION	Wear goggles.
RESPIRATORY PROTECTION	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
ENVIRONMENTAL EXPOSURE CONTROLS	Avoid release into the environment.
OTHER INFORMATION	Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Light milky-white opaque liquid solution
ODOR	Natural scent
BOILING POINT	Not determined
MELTING POINT	Not determined
FREEZING POINT	Not determined
VAPOR PRESSURE (mmHg)	Not determined
VAPOR DENSITY (AIR = 1)	Not determined
SPECIFIC GRAVITY (H₂O = 1)	0.98 – 1.02
EVAPORATION RATE	Not determined
SOLUBILITY IN WATER	Soluble
PERCENT SOLIDS BY WEIGHT	Not applicable
PERCENT VOLATILE	Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity, stability, and hazards

REACTIVITY	No hazards to be specifically mentioned.
CHEMICAL STABILITY	No information available
POSSIBILITY OF HAZARDOUS REACTIONS	No information available



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INCOMPATIBILITY (MATERIAL TO AVOID)	No information available
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS	Avoid contact with strong acids, strong bases, and strong oxidizers.
HAZARDOUS POLYMERIZATION:	Carbon monoxides and unidentified compounds may be formed during combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

ACUTE ORAL TOXICITY No specific acute toxicity data is available for this mixture. Based on the available data the classification criteria are not met.

SKIN CORROSION/IRRITATION No specific skin corrosion/irritation data is available for this mixture. Skin corrosion/irritation data on hazardous components >1.0% total concentration is given below:

Component	Skin Corrosion/Irritation
Cedarwood oil	Causes skin irritation

SERIOUS EYE DAMAGE/IRRITATION
Based on the available data the classification criteria are not met.

RESPIRATORY OR SKIN SENSITIZATION
No specific skin corrosion/irritation data is available for this mixture. Skin corrosion/irritation data on hazardous components >1.0% total concentration is given below:

Component	Skin Corrosion/Irritation
Cedarwood oil	May cause an allergic skin reaction

MUTAGENICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed to have mutagenic effects.

CARCINOGENICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen.

REPRODUCTIVE TOXICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed reproductive toxin.

STOT- SINGLE EXPOSURE Based on the available data the classification criteria are not met.

STOT – REPEATED EXPOSURE Based on the available data the classification criteria are not met.

ASPIRATION HAZARD Based on the available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity



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GENERAL ECOLOGICAL TOXICITY

No specific data on ecological toxicity is available for this mixture. Data on general ecological toxicity for hazardous components >1.0% total concentration is given below:

Component	Ecology - general	Ecology – water
Cedarwood oil	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.	Very toxic to aquatic life. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

PERSISTANCE AND BIODEGRADABILITY

No specific data on persistence and biodegradability is available for this mixture. Data on persistence and biodegradability for hazardous components >1.0% total concentration is given below:

Component	Biodegradability
Cedarwood oil	May cause long-term adverse effects in the environment.

BIOACCUMULATIVE POTENTIAL

No specific data on bioaccumulative potential is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Bioaccumulative potential
Cedarwood oil	Not established.

MOBILITY IN SOIL

No specific data on mobility in soil is available for this mixture. Data on mobility in soil for hazardous components >1.0% total concentration is given below:

Component	Mobility in Soil
Cedarwood oil	No additional information is available.

OTHER ADVERSE EFFECTS

No specific data on other adverse effects is available for this mixture. Data on other adverse effects for hazardous components >1.0% total concentration is given below:

Component	Other Adverse Effects
Cedarwood oil	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

WASTE INFORMATION

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN Number

UN 3082

14.2 Proper Shipping Name



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PROPER SHIPPING NAME (DOT)	Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)
PROPER SHIPPING NAME (IMDG)	Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)
PROPER SHIPPING NAME (IATA)	Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)
14.3 <u>Transportation hazard class(es)</u>	
TRANSPORT HAZARD CLASS (DOT)	9
TRANSPORT HAZARD CLASS (IMDG)	9
TRANSPORT HAZARD CLASS (IATA)	9
14.4 <u>Packing Groups</u>	
PACKING GROUP (DOT)	III
PACKING GROUP (IMDG)	III
PACKING GROUP (IATA)	III
14.5 <u>Environmental Hazards</u>	
ENVIRONMENTAL HAZARDS	YES
MARINE POLLUTANTS	YES (Cedarwood oil, Geranium oil)
OTHER INFORMATION	NO supplementary information available

SECTION 15: REGULATORY INFORMATION

15.1 United States TSCA Inventory (TSCA)

All components of this product are listed or exempt from listing on TSCA inventory.

15.2 United States FIFRA

This product only contains 100% EPA exempt ingredients. This product is exempt from Federal EPA registration under section 25(b) of FIFRA and as such is not registered with the Environmental Protection Agency.

15.3 Clean Water Act and Clean Air Act

Clean Water Act (CWA) 307:	No products were found.
Clean Water Act (CWA) 311:	No products were found.
Clean Air Act (CAA) 112 regulated toxic substances:	No products were found.



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SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

1.1 Product identifier

PRODUCT NAME EcoBarrier Eliminator
SYNONYM ECS-G-639
TRADE NAMES INCI NAME Natural Insecticide for Bedbug Control

1.2 Relevant identified uses of the substance or mixture and uses advised against

RECOMMENDED USE Bedbug Control Spray

1.3 Details of the supplier of the safety data sheet

SUPPLIER NAME VAMA Eco, Inc.
SUPPLIER ADDRESS 237 Kearny St., Suite 9200
San Francisco, CA 94108
CONTACT PERSON Sandeep Patil
SUPPLIER PHONE NUMBER (650) 539-5540 Office Hours are 9-5 weekdays only
EMERGENCY PHONE NUMBER (650) 539-5540

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

FLAMMABILITY Category 4
SKIN IRRITATION Category 2
SKIN SENSITIZATION Category 1 and 1B
EYE IRRITATION Category 2A
ASPIRATION HAZARD Category 2
SHORT TERM (ACUTE) ENVIRONMENTAL HAZARD
Category 2
LONG TERM (CHRONIC) ENVIRONMENTAL HAZARD
Category 2

2.2 Label elements:



HAZARD PICTOGRAMS



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SIGNAL WORD	Warning, Combustible Liquid, Category 4, Warning, Skin irritation, Category 2 Warning, Skin sensitization, Category 1 Warning, Eye irritation, Category 2A Warning, Aspiration Hazard, Category 2 Short term (acute) aquatic hazard, Category 2 Long term (Chronic) aquatic hazard, Category 2
HAZARDOUS INGREDIENTS	Cedarwood oil, geranium oil
HAZARD STATEMENTS	H227 – Combustible Liquid H316 – Causes mild skin irritation. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H411 – Toxic to aquatic life with long lasting effects. H401 – Toxic to aquatic life. H305 – May be fatal if swallowed and enters airways.
PRECAUTIONARY STATEMENTS	P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking. P235 – Keep cool. P261 – Avoid breathing dust/fumes/gas/vapours/spray. P264 – Wash hands thoroughly after handling. P272 – Contaminated work clothing should not be allowed out of the workplace. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection.
RESPONSE	P301 + P310 – IF SWALLOWED: Immediately call a poison center of a doctor/physician. P302 + P352 – IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P331 – Do NOT induce vomiting. P332 + P313 – If skin irritation occurs: Get medical advice/attention. P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention. P337 + P313 – If eye irritation persists: Get medical advice/attention. P362 – Take off contaminated clothing and wash before reuse. P363 – Wash contaminated clothing before reuse. P370 + P378 – In case of fire use alcohol-resistant foam, dry chemical, or carbon dioxide. P391 – Collect spillage.
STORAGE	P403 – Store in a dry place. P403 + P235 – Store in a well-ventilated place. Keep cool. P405 – Store locked up.
DISPOSAL	P501 – Dispose of contents and/or container in accordance with regional regulation.
2.3 Other hazards	

OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION

May be harmful if swallowed. May be harmful if inhaled. May cause respiratory tract irritation.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No	% by Weight
Cedar oil	68990-83-0	7.5 - 12
Geranium oil	8000-46-2	2.72 - 4.15
Other Ingredients	-	To 100%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

GENERAL	Take hazard and precautionary statements into account.
EYES	Flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
SKIN	Remove contaminated clothes. Wash thoroughly with soap and water. Obtain medical advice if symptoms persists.
INHALATION	Remove person from exposure site and keep at rest. Seek medical attention if required.
INGESTION	Rinse mouth with water. DO NOT induce vomiting. Seek medical attention if required.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA	CO ₂ , dry chemical, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.
UNSUITABLE EXTINGUISHING MEDIA	Do not use direct water stream. May spread fire.

5.2 Special hazards arising from the substance of mixture.

SPECIFIC HAZARDS FOR FIREFIGHTING

Water may be ineffective.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO₂)



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5.3 Advice for firefighters

PROTECTION DURING FIREFIGHTING

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and accidental emergency procedures

PRECAUTIONS FOR SAFE HANDLING Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

6.2 Environmental precaution

ENVIRONMENTAL PRECAUTION Prevent from entering soil, ditches, sewers, waterways, and/or groundwater.

6.3 Methods and materials for containment and cleaning up

FOR CONTAINMENT AND CLEAN UP Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillage should be contained by use of sand or inert powder and disposed of according to the local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

PRECAUTIONS FOR SAFE HANDLING As with any all-natural essential oil products, keep out of reach of children and animals. Prevent from freezing for excessive heat temperatures. Avoid any contact with eyes or ingestion. Ensure good ventilation of the workstation. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Avoid excessive inhalation of concentrated vapours, contact with skin and eyes. Follow good manufacturing practices for housekeeping and personal hygiene. Contaminated clothing and shoes should be thoroughly cleaned before re-use. Keep away from ignition sources and naked flame.

7.2 Conditions for safe storage, including any incompatibilities.

STORAGE CONDITIONS Store in a cool, dry ventilated area away from heat sources. Keep containers tightly closed when not in use.

INCOMPATIBLE MATERIALS Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

CONTROL PARAMETERS No additional information available



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8.2 Exposure Controls

ENGINEERING CONTROLS	Ensure good ventilation of the workstation.
SKIN PROTECTION	Avoid skin contact. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Wear protective clothing.
EYE PROTECTION	Wear goggles.
RESPIRATORY PROTECTION	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
ENVIRONMENTAL EXPOSURE CONTROLS	Avoid release into the environment.
OTHER INFORMATION	Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
COLOUR	Light yellow-green, clear
ODOR	Natural scent
ODOUR THRESHOLD	No information available
pH	No information available
MELTING POINT	No information available
FREEZING POINT	No information available
BOILING POINT	190°C
FLASH POINT	64.5°C
AUTRO-IGNITION TEMPERATURE	No information available
DECOMPOSITION TEMPERATURE	No information available
FLAMMABILITY	Combustible
VAPOR PRESSURE (mmHg)	No information available
SPECIFIC GRAVITY (H₂O = 1)	0.85 – 0.98
SOLUBILITY IN WATER	Soluble
VISCOSITY, KINEMATIC	3.53 mm ² /s
VISCOSITY, DYNAMIC	3.34 mPa·s

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity, stability, and hazards

REACTIVITY	No hazards to be specifically mentioned.
CHEMICAL STABILITY	No information available
POSSIBILITY OF HAZARDOUS REACTIONS	No information available



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INCOMPATIBILITY (MATERIAL TO AVOID)	No information available
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS	Avoid contact with strong acids, strong bases, and strong oxidizers.
HAZARDOUS POLYMERIZATION:	Carbon monoxides and unidentified compounds may be formed during combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

ACUTE ORAL TOXICITY No specific acute toxicity data is available for this mixture. Based on the available data; the classification criteria are not met.

SKIN CORROSION/IRRITATION No specific skin corrosion/irritation data is available for this mixture. Skin corrosion/irritation data on hazardous components >1.0% total concentration is given below:

Component	Skin Corrosion/Irritation
Cedarwood oil	Causes skin irritation
Geranium oil	Causes skin irritation

SERIOUS EYE DAMAGE/IRRITATION No specific serious eye damage/irritation data is available for this mixture. Serious eye damage/irritation data on hazardous components >1.0% total concentration is given below:

Component	Serious eye damage/irritation
Geranium oil	Serious eye damage

RESPIRATORY OR SKIN SENSITIZATION No specific skin corrosion/irritation data is available for this mixture. Skin corrosion/irritation data on hazardous components >1.0% total concentration is given below:

Component	Respiratory or skin sensitization
Cedarwood oil	May cause an allergic skin reaction
Geranium oil	May cause an allergic skin reaction

MUTAGENICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed to have mutagenic effects.

CARCINOGENICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen.

REPRODUCTIVE TOXICITY No component in levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed reproductive toxin.

STOT- SINGLE EXPOSURE Based on the available data, the classification criteria are not met.

STOT – REPEATED EXPOSURE Based on the available data, the classification criteria are not met.

ASPIRATION HAZARD No specific aspiration hazard data is available for this mixture. Aspiration hazard data on hazardous components >1.0% total concentration is given below:

Component	Aspiration Hazard
Cedarwood oil	May be fatal if swallowed and enters airways.



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Geranium oil	May be fatal if swallowed and enters airways.
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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

GENERAL ECOLOGICAL TOXICITY

No specific data on ecological toxicity is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Ecology - general	Ecology – water
Cedarwood oil	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.	Very toxic to aquatic life. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Geranium oil	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

PERSISTANCE AND BIODEGRADABILITY

No specific data on persistence and biodegradability is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Biodegradability
Cedarwood oil	May cause long-term adverse effects in the environment.
Geranium oil	May cause long-term adverse effects in the environment.

BIOACCUMULATIVE POTENTIAL

No specific data on bio accumulative potential is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Bio accumulative potential
Cedarwood oil	Not established.
Geranium oil	Not established.

MOBILITY IN SOIL

No specific data on mobility in soil is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Mobility in Soil
Cedarwood oil	Not established.
Geranium oil	Not established.

OTHER ADVERSE EFFECTS

No specific data on other adverse effects is available for this mixture. Data on bioaccumulate potential for hazardous components >1.0% total concentration is given below:

Component	Other Adverse Effects
Cedarwood oil	Avoid release to the environment.
Geranium oil	Avoid release to the environment.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

WASTE INFORMATION

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN Number UN 3082

14.2 Proper Shipping Name

PROPER SHIPPING NAME (DOT) Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)
PROPER SHIPPING NAME (IMDG) Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)
PROPER SHIPPING NAME (IATA) Environmentally hazardous substance, liquid, n.o.s. (Cedarwood oil, Geranium oil)

14.3 Transportation hazard class(es)

TRANSPORT HAZARD CLASS (DOT) 9
TRANSPORT HAZARD CLASS (IMDG) 9
TRANSPORT HAZARD CLASS (IATA) 9

14.4 Packing Groups

PACKING GROUP (DOT) III
PACKING GROUP (IMDG) III
PACKING GROUP (IATA) III

14.5 Environmental Hazards

ENVIRONMENTAL HAZARDS YES
MARINE POLLUTANTS YES (Cedarwood oil, Geranium oil)
OTHER INFORMATION NO supplementary information available

SECTION 15: REGULATORY INFORMATION

15.1 United States TSCA Inventory (TSCA)

All components of this product are listed or exempt from listing on TSCA inventory.



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15.2 United States FIFRA

This product only contains 100% EPA exempt ingredients. This product is exempt from Federal EPA registration under section 25(b) of FIFRA and as such is not registered with the Environmental Protection Agency.

15.3 Clean Water Act and Clean Air Act

Clean Water Act (CWA) 307:	No products were found.
Clean Water Act (CWA) 311:	No products were found.
Clean Air Act (CAA) 112 regulated toxic substances:	No products were found.

SECTION 16: OTHER INFORMATION

ISSUED BY:

REVISION DATE: April 8, 2021

REVISION: 5

DISCLAIMER:

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