



SDS

In compliance with HCS/HazCom 2012

SAFETY DATA SHEET

Product: CEDARWOOD OIL BLEND (TICK KILLZ)

Revision: 1.0

Date: 01/26/2022

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SECTION 1: IDENTIFICATION

Product identifier	CEDARWOOD OIL BLEND (TICK KILLZ).
Recommended uses	Outdoor tick & mosquito control pesticide product
Company	Natural Repellents
Address:	11 Cedar Gate Road Denville, NJ 07834 - USA
Telephone number	973-627-4523
Emergency telephone number	CHEMTREC 1 (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical product	Flammable liquids – Category 4 Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation – Category 1 Specific target organ toxicity - Single exposure - Category 3 Hazardous to the aquatic environment - Acute - Category 2 Hazardous to the aquatic environment - Long-term - Category 2
Pictograms	
Signal word	DANGER
Hazard statement(s)	H227 Combustible liquid. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H401 Toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects
Precautionary statement(s)	PREVENTION P210 Keep away from heat, hot surfaces, sparks, open flames, and



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other sources. No smoking.

P261 Avoid breathing mist, vapours.

P264 Wash hands, forearms, and other exposed skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCIES

P391 Collect spillage.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332 + P317 If skin irritation occurs: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

STORAGE

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

DISPOSAL

P501 Dispose of contents and container in accordance with current regulations.

Classification system adopted

Hazard Communication Standard (HCS) 29 CFR: 1910.1200 - Appendix A.

Adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations, 9 ed. 2021.

Other hazards which do not result in classification

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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MIXTURE

Impurities and stabilizing additives contributing to the hazard

Components	Concentration %	Number CAS	GHS classification*
Ethyl lactate	25 – 50%	97-64-3	H226; H315; H318; H335
Alpha-cedrene	1 – 5%	469-61-4	H226; H304; H400; H410

* Hazard statements are described in section 16.

SECTION 4: FIRST-AID MEASURES

Exposure routes

Inhalation	Remove victim to fresh air and keep at rest in a comfortable position for breathing. Monitor respiratory function. If you feel unwell, contact a POISON CENTER or doctor. Take this SDS.
Skin contact	In case of skin contact, remove all contaminated clothing immediately. Wash immediately with plenty of running water for a few minutes. Wash contaminated clothing before reuse. If necessary, seek medical attention and take this SDS.
Eye contact:	Rinse with plenty of water, keeping the eyelids open to eliminate all the product. If using contact lenses, remove them if it is easy. Continue rinsing. If necessary, contact a POISON CENTER or a doctor. Take this SDS.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Wash the victim's mouth with plenty of water. If vomiting occurs, tilt the patient forward or place him on the left side (upward if possible) to keep the airway open and avoid aspiration. Keep the patient silent and maintain normal body temperature. Consult a TOXICOLOGY CENTER or a doctor. Take this SDS.
Most important	Contact with the product causes skin irritation with redness, dryness,



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symptoms/effects	and peeling. Contact with the product causes serious eye damage with burns, pain, burning, redness and tearing. Inhalation of the product can cause respiratory irritation with coughing and sneezing.
Indication of any immediate medical attention and special treatment needed:	Avoid contact with the product when helping the victim. Exposure treatment should be directed at controlling the symptoms and the clinical condition of the patient. In case of skin contact, do not rub the affected area.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	Suitable: Compatible with water jet or fog, foam, chemical powder, carbon dioxide (CO ₂). Not suitable: Direct water jets.
Specific hazards arising from the chemical product	Dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or match and cigarette flames, welding operations, pilot lights and electric motors. May accumulate static charge by flow or agitation. Vapors of heated liquid may ignite by static discharge. Vapors may be denser than air and tend to accumulate in low or confined areas such as manholes and basements. They can travel long distances, causing the flame to recede or new fires in open and confined environments. Containers may explode if heated. Combustion of the chemical or its packaging can form irritating and toxic gases such as monoxide and carbon dioxide.
Specific extinguishing methods	If material is on fire or involved in fire: Submerge with water. Cool all affected containers with plenty of water. Approach fire against wind to avoid hazardous vapors and toxic decomposition products. Use large amounts of water in containers involved in fire. If necessary, use water spray to cool fire-exposed containers. Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES



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Personal precautions	Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without wearing suitable clothing. Avoid exposure to the product. Stay away from low areas, with the wind behind you. Use personal protective equipment as described in section 8.
Protective equipment:	Wear PPE complete with safety glasses, protective gloves, suitable protective clothing, and closed shoes.
Emergency procedures	In case of large leaks, where exposure is large, it is recommended to use respiratory protection with a filter against vapors. Evacuate the area within a radius of at least 100 meters. If the tank or cargo is involved in the fire, isolate the area within a radius of 200 meters in all directions. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk.
Environmental precautions	Do not allow to enter drains, sewers, or watercourses. Inform the relevant authorities if the product has caused environmental contamination (if it Local, state, and / or federal notification may be required if this material is released to the environment as reached watercourses or if it has contaminated the soil or vegetation).
Methods and materials for containment	Containment techniques may include bunding, covering of drains and capping procedures.
Methods and materials for cleaning up	Use water mist or vapor suppressing foam to reduce the dispersion of the vapors. Use natural barriers or containment of spillage. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or other inert material. Place the adsorbed material in appropriate containers and remove them to a safe place. For disposal, proceed according to Section 13 of this SDS.

SECTION 7: HANDLING AND STORAGE

Handling

Precautions for safe handling	Handle in a ventilated area or with a general local ventilation / exhaust system. Avoid formation of vapors. Avoid exposure to the product. Avoid contact with incompatible materials. Ground all equipment. Use
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	explosion-proof electrical equipment and lighting. Ground the lines and equipment used during the transfer to reduce the possibility of a fire or explosion initiated by a static spark. Use personal protective equipment as described in section 8.
Suitable precautions	Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas. Smoking, eating, or drinking should be prohibited when working with this product.
Prevention of contact	Wash hands and face thoroughly after handling and before eating, drinking, smoking, or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.
Storage	
Conditions for safe storage	Keep away from heat, sparks, open flames, and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation, and lighting explosion proof.
Incompatible substances and mixtures	Incompatible with oxidizing agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Occupational exposure limit There are no established occupational exposure limits.

Biological limit There are no established biological limits.

Engineering controls measures Promote mechanical ventilation and a direct exhaust system to the outside environment. These measures help to reduce product exposure. Proper grounding procedures to avoid static electricity should be followed.

Individual protection measures, such as personal protective equipment:

Respiratory protection Respiratory protection with filter against organic vapors or mist in case



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of exposure to the product.

Based on occupational exposure limits and inhalation hazards of the product, a risk assessment should be performed to properly define respiratory protection in view of the conditions of product use.

Hand protection

Nitrile protective gloves.

Eye protection

Safety glasses with side shields or chemical type goggles or face shield are recommended.

Skin and body protection

Suitable safety clothing and closed shoes. The material used should be waterproof. Wear anti-static footwear and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Liquid, light yellow.

Odor

There may be no odor warning properties, odor is subjective and inadequate to warn of overexposure.

Odor threshold

Mixture contains one or more component(s) which have the following odor(s): mild odor fruity odor, peppermint odor, sweet odor, camphor odor, lemon odor.

pH

No data available

Melting point/freezing point

No data available

Boiling point, initial boiling, and boiling range

No data available

Flashpoint

147.2°C (64°C).

Upper/lower flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Relative density

0.989 g/cm³.

Solubility(ies)

Water: Solubility in water of component(s) of the mixture: 0.046 g/100mL.

n-octanol/water partition coefficient

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available



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Evaporation rate	No data available
Flammability	No data available
Viscosity	< 20.5 mm ² /s.
Other information	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The product is not reactive.
Chemical stability	Product is stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions	May react dangerously in contact with incompatible materials.
Conditions to avoid	Elevated temperatures. Ignition sources, contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition can release carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	It is not expected that the product causes oral, dermal or inhalation toxicity. <u>Ethyl lactate:</u> LD ₅₀ (oral, rats): > 2000 mg/kg. <u>Acute Toxicity of the Mixture:</u> ATE US (oral): 8200.000 mg/kg.
Skin irritation/corrosion	Contact with the product causes skin irritation with redness, dryness, and peeling.
Eye damage/irritation	Contact with the product causes serious eye damage with burns, pain, burning, redness and tearing.
Respiratory or skin sensitization	It is not expected to cause respiratory or skin sensitization. <u>Ethyl lactate:</u> In vitro skin sensitization test (OECD Guideline 442C): negative result.
Reproductive cell	The product is not expected to show germ cell mutagenicity.



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mutagenicity	<u>Ethyl lactate:</u> <i>In vitro</i> gene mutation study in bacteria (OECD Guideline 471 (Bacterial Reverse Mutation Assay): Ethyl lactate is not mutagenic in the <i>Salmonella typhimurium</i> .
Carcinogenicity	The product is not expected to be carcinogenic. The product is not listed on the IARC or ACGIH.
Reproductive toxicity	The product is not expected to exhibit reproductive toxicity. <u>Ethyl lactate:</u> Study short-term repeated dose toxicity, oral in rats (OECD Guideline 422): no effects observed.
Specific target organ toxicity – single exposure	Inhalation of the product can cause respiratory irritation with coughing and sneezing.
Specific target organ toxicity – repeated exposure	The product is not expected to present specific target organ toxicity by repeated exposure.
Aspiration hazard	The product is not expected to present an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects, behavior, and fate of the product

Ecotoxicity	Toxic to aquatic life with long lasting effects. <u>Alpha-Cedrene:</u> LC ₅₀ (Fish): 0.1043 mg/L (predicted). EC ₅₀ (<i>Daphnia magna</i> , 48h): 0.05 mg/L (predicted). NOEC (<i>Daphnia</i> or Algae): 0.05 mg/L (predicted). <u>Ethyl lactate:</u> LC ₅₀ (Fish, 96h): 284.312 mg/L (QSAR). EC ₅₀ (Aquatic Invertebrates, 48h): 774.36 mg/L (QSAR). EC ₅₀ (Algae, 72h): 417.339 mg/L (QSAR).
Persistence and degradability	The product is expected to be persistent and not rapidly degraded.
Bioaccumulative potential	The product has high potential for bioaccumulation in aquatic organisms.
Mobility in soil	No data available.
Other adverse effects	No other environmental effects are known for this product.



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SECTION 13: DISPOSAL CONSIDERATIONS

Methods of disposal to the chemical product, product waste and/or contaminated container and/or packaging	Must be disposed in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed. Disposal should be performed as established for the product. Do not reuse empty containers. These may contain product residues and should be kept closed and sent for proper disposal as established for the product.
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SECTION 14: TRANSPORT INFORMATION

International regulations

Land	USDOT (US Department of Transportation) / DOT 49 CFR (US law).
UN number	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alpha-Cedrene)
Transport hazard class(es)	9
Subsidiary risks	NA
Packing group	III
Sea	IMO – International Maritime Organization International Maritime Dangerous Goods Code (IMDG Code)
UN number	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alpha-Cedrene)
Transport hazard class(es)	9
Subsidiary risks	NA
Packing group	III
Environmental hazards	The product is a marine pollutant.
EmS	F-A, S-F
Air	IATA – International Air Transport Association Dangerous Goods Regulation (DGR)
UN number	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



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	(Alpha-Cedrene)
Transport hazard class(es)	9
Packing group	III
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code	Consult regulations: - International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006; - International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.
Special precautions	There is no need of special precautions.

SECTION 15: REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

Hazard Communication Standard, 29 CFR 1910.1200 (HCS).

U.S. Federal Regulations

United States inventory (TSCA): Listed.

SECTION 16: OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace, it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

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Hazard phrases described in section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

CAS – Chemical Abstracts Service

LE₅₀ – Effective concentration 50%

LC₅₀ – Lethal Concentration 50%

LD₅₀ – Lethal Dose 50%

LEL – Lower Explosive Limit

UEL – Upper Explosive Limit

NIOSH – National Institute of Occupational Safety and Health

OSHA – Occupational Safety & Health Administration

PEL – Permissible Exposure Limit

Bibliographic references:

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