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SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Tradename: **Pest Asia Mosquito Repellent Spray**

1.2. Relevant identified uses of the substance or mixture and uses against:

1.2.1. Identified uses: Used to repel mosquitoes from skin and clothing.

1.2.2. Uses advised against: Do not spray near eyes, mouth, or on broken skin. Not suitable for infants under 6 months. Avoid excessive inhalation or use near open flame.

1.3. Details of the supplier of the safety data sheet:

PEST ASIA TRADING (M) SDN BHD

24, Jalan Antoi Kanan 1, Kepong Baru 52100 Kuala Lumpur

Phone: +6 0166019424

e-mail: pestasiatrading@gmail.com

1.4. Emergency telephone number:

+6016 6019424 (at working hours: 9.00 a.m. – 5 p.m.)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

According to Regulation (EC) No 1272/2008 [CLP]:

Eye Irritation 2 (H319) — Causes serious eye irritation

Skin Irritation 2 (H315) — Causes skin irritation

Aquatic Chronic 3 (H412) — Harmful to aquatic life with long lasting effects

2.2. Label elements

Signal words : **Warning**

Hazard Statement:

H412: Harmful to aquatic life with long lasting effects

H315: Causes skin irritation

H319: Causes serious eye irritation

Precautionary statements:

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/eye protection

P273: Avoid release to the environment.

P501: Dispose of contents/container in accordance with local regulations

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

2.3 Other hazards

This product does not meet the criteria for PBT or vPvB as defined in Annex XIII of REACH.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures.

Content of hazardous compounds (compounds below general and specific concentration thresholds, not identified as PBT/vPvB, not listed as SVHC and not having community TLVs are not mentioned):

Chemical name	CAS No	Content (% w/w)	Function
Citronella Oil	8000-29-1	<5%	Natural mosquito repellent
Tea Tree Oil	68647-73-4	<3%	Skin-soothing and repellent
Glycerin	56-81-5	<2%	Moisturizing agent
Ethanol (Alcohol)	64-17-5	>90%	Solvent / Carrier

Meaning of hazards classes and categories and full H phrases are given in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures. General recommendations:

Remove injured person from a polluted environment. Remove any contaminated clothing, place in a comfortable position, provide fresh air and heat. Loosen tight clothing such as a collar, tie, belt or waistband. Never give anything by mouth to an unconscious person. In the event of health problems, immediately contact doctor, show SDS or label of the product. Inform medical personnel of first aid provided.

Skin contamination: wash contaminated skin with water and soap. In case of skin irritation get medical help. Contaminated clothing has to be washed before reuse.

Eye contamination: rinse widely open eyes with clean water or dedicated fluid for 15 minutes, get medical help.

Inhalation exposure: remove the victim from exposure area, when breathing difficulties provide oxygen, get medical help if needed.

Ingestion: rinse mouth with plenty of water, get medical help immediately. Do not induce vomiting. If occurs, keep victim's head low to avoid getting the product into respiratory tract.

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4.2. Most important symptoms and effects, both acute and delayed

Acute: May cause skin and eye irritation. Delayed: No delayed symptoms expected under normal conditions of use.

4.3. Indication of any immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media.

Suitable extinguishing media: for small fires use foam, snow or powder extinguisher. For large fires use foam or water mist.

Unsuitable extinguishing media: strong stream of water, risk of environment contamination spread.

5.2. Special hazards arising from the substance or mixture.

During the fire of the product following compounds might be emitted – carbon oxides or other hazardous gases. Avoid breathing of combustion products, they might be hazardous to health.

5.3. Advice for firefighters:

Unconditionally use personal breathing apparatus and wear appropriate protective clothing during firefighting and cleaning after the fire inside closed and poorly ventilated rooms.

General advice: evacuate all unauthorized personnel not taking action during firefighting.

Additional remarks: containers and packages endangered by fire or high temperature should be cooled down by water from a safe distance or relocated from area of fire if possible and safe. Fire residues and contaminated extinguishing media has to be disposed according to current regulation. Do not dispose extinguishing media to sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with released product. Protect eyes and skin, do not inhale vapours/mist of the product. Use recommended personal protection measures. Ventilate closed areas.

6.2. Environmental precautions:

Do not allow the product to get to the sewers, ground and surface waters. Do not rinse product into the sewers. In case of water contamination - inform appropriate authorities immediately.



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6.3. Methods and material for containment and cleaning up:

In case of unsealed container or spillage secure source of contamination and move product to empty container. Spillages should be treated by appropriate sorbent (sand, sawdust, diatomaceous earth, vermiculite, universal sorbent), collected to closed container, labelled and safely disposed. Area of spillage should be cleaned. Cleaning up should be conducted under appropriate ventilation.

6.4. Reference to other sections: Personal protection measures – Section 8 Waste management – Section 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Read label before use of the product. Avoid direct contact with mouth, skin and eyes. Do not eat or drink during product handling. Wash hands and face after usage. Product should be used only as intended.

Special precautions against fire and explosion: None.

Industrial hygiene:

- sufficient ventilation of work area is recommended (general and local exhaust ventilation)
- provide place for eye and wash cleaning in case of contamination
- wash hands by water and soap before eating, smoking and after work end.
- follow common safety precautions of chemicals handling

7.2. Conditions for safe storage, including any incompatibilities:

Keep only in the original, closed containers. Avoid water and humidity during storage.

Keep the product away from children, food, beverage and animal feed. Store and transport at temperatures of 0 to 35 °C.

7.3. Specific end use(s): See Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Occupational Exposure Limit Value:

No DNELs available for mixture components at relevant concentrations.

DNELs (Derived No Effect Levels) for mixture components:

Route of exposure	Workers				General population (consumers)			
	Acute local Effects	Acute systemic effects	Chronic local effects	Chronic systemic effects	Acute local Effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Ingestion	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.
Inhalation	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.
Dermal	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.	n. d.

n. d. – no data

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8.2. Exposure controls:

Technical control measures:

General or local mechanical ventilation of working area is sufficient.

Individual protection measures:

a) respiratory protection – not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. When needed use half mask with SA type filter.

b) Hand protection – use protective gloves. Wear protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, thickness min. 0,4 – 0,7mm. The Breakthrough Time > 480 min. Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves cannot be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (color, flexibility, shape).

c) Eye protection – recommended protective glasses

d) Skin protection – protective clothing

Protective equipment standards:

EN 140:2001 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking EN 143:

2004 Respiratory protective devices - Particle filters - Requirements, testing, marking

EN 149+A1:2010 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

EN 14387+A1:2010 Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking

EN 374-1:2005 Protective gloves against dangerous chemicals and micro-organisms -- Part 1: Terminology and performance requirements for chemical risks

EN 374-2:2005 Protective gloves against chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 374-3:2005 Protective gloves against chemicals and micro-organisms – Part 2: Determination of resistance to permeation by chemicals

PN-EN 166:2005 Personal eye protection. Specifications

PN-EN 14605+A1:2010 Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

PN-EN ISO 20344:2012 Personal protective equipment -- Test methods for footwear

Environmental exposure controls:

Do not allow the product to get to the soil, surface and ground water.



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PNECs (Predicted No Effect Concentrations) for mixture components:

Compartment	
Fresh water	No data
Sediment – fresh water	No data
Marine water	No data
Sediment – marine water	No data
Intermittent releases (freshwater)	No data
Food chain	No data
Biological sewage treatment plant	No data
Soil (agriculture)	No data
Air	No data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	Clear to pale yellow liquid
Odour:	Herbal citrus (citronella, tea tree)
Odour threshold:	Not determined
pH:	Not applicable (alcohol-based)
Melting point/freezing point:	~-114°C (ethanol)
Initial boiling point and boiling range:	~78°C
Flash point:	~13°C (flammable)
Evaporation rate:	Fast
Flammability:	Highly flammable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not determined
Vapour density:	Approx. 1.6 (ethanol)
Relative density (20°C):	~0.79–0.83
Solubility in water:	Partially miscible
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	~363°C
Decomposition temperature:	Not determined
Viscosity:	Low viscosity liquid
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising

9.2. Other information: no data

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Product is not reactive under recommended conditions of storage and handling.

10.2. Chemical stability:

Product is stable under recommended conditions of storage and handling.

10.3. Possibility of hazardous reactions:

No hazardous reactions known under normal conditions.

10.4. Conditions to avoid:

Avoid extreme heat, direct sunlight, and freezing conditions.

10.5. Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

May produce carbon monoxide, carbon dioxide, and other toxic gases when heated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients:

Acute toxicity: Based on ingredient data, not expected to be acutely toxic.

Skin corrosion/irritation: May cause skin irritation.

Serious eye damage/irritation: May cause eye irritation.

Respiratory or skin sensitization: Not expected to be sensitizing.

Germ cell mutagenicity, carcinogenicity, reproductive toxicity: Not classified based on available data.

STOT – single or repeated exposure: No known effects under normal use.



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SECTION 12: Ecological information

12.1. Toxicity:

Harmful to aquatic life with long lasting effects (Aquatic Chronic 3 – H412)

12.2. Persistence and degradability:

Some components (e.g., surfactants) may degrade slowly. Botanical extract is biodegradable.

12.3. Bioaccumulative potential:

No data

12.4. Mobility in soil:

No data

12.5. Results of PBT and vPvB assessment:

Product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects:

No data

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Wastes of the product: Unused remains keep in original containers. Get the wastes to the establishment authorized for transport, recovery and disposal of wastes. Do not rinse product into the sewers, surface waters, soil.

Suggested waste code: 16 03 05* organic wastes containing dangerous substances

Disposal of empty packaging: Recycling or disposal of empty packaging must be performed in compliance with current legislation (see Section 15)

Waste code: 15 01 10* packaging containing residues of or contaminated by dangerous substances.

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SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number:** 1170
- 14.2. UN proper shipping name:** Ethanol Solution
- 14.3. Transport hazard class(es):** 3
- 14.4. Packing group:** II
- 14.5. Environmental hazards:** Not classified as environmentally hazardous
- 14.6. Special precautions for user:** None

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

15.2. Chemical safety assessment:

Chemical safety assessment was not conducted for the product.

SECTION 16: OTHER INFORMATION

Explanation of risk phrases and hazard category referring hazardous substance contained in product:

Explanation of abbreviations and acronyms used in the SDS:

CAS – Chemical Abstracts Service

EINECS – Number assigned to a substance in the European Inventory of Existing Commercial Chemical Substances

PBT – persistence, bioaccumulation potential and toxicity vPvB – very high durability and very bioaccumulative TLV – threshold limit value in the workplace

STEL – short term exposure limits maximum of a substance harmful to health in the workplace ATEmix – acute toxicity estimate for mixture

LD50 – Lethal Dose, 50%

LC50 – Lethal Concentration, 50% EC50 – Effect Concentration 50%

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road IMDG – International Maritime Dangerous Goods Code

Recommendation and restriction of use: Use according to label.

Disclaimer: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.