

SAFETY DATA SHEET

1 – IDENTIFICATION

Identification of the substance or preparation:

Name : STAY AWAY MOSQUITOES INSECT REPELLENT
Product code : FACO01252
EPA Reg. No. : 88957-1-82016
Registered company name : EARTHKIND INC.
Address : 2910 E. Broadway #19
BISMARCK, ND 58501
U.S.A.
Emergency telephone : Chemtrec: +1 800-424-9300 CCN 801214
EARTHKIND: Tel.: +1 800-583-2921
**Use of the substance/
Preparation** : INSECT REPELLENT

2 – HAZARD IDENTIFICATION

HAZCON Standard : This material is not considered Hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical State : Liquid

**Classification of the
Substance or mixture** : Eye irritation, Category 2 (Eye Irrit. 2, H319).
This mixture does not present a physical hazard.
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.
This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.
Mixture for spray application.

Hazard Signal word : Warning

**Precautionary statements –
General:** : Causes serious eye irritation.
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

Prevention : Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response : IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal : Dispose of contents/container in accordance with national regulations.

Other information : Keep away from food, drink and animal feeding stuffs.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance : Mixtures

Ingredient name	%
Glycerine	2.5 ≤ X% ≤ 10
CAS: 56-81-5	
Ethanol	2.5 ≤ X% ≤ 10
CAS: 64-17-5	

4 – FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

Description of first aid Measures

In the event of exposure by inhalation : If inhaled, move the patient to fresh air and keep warm and at rest

In the event of splashes or contact with eyes : Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin : For feeling of irritation, rinse abundantly with water. And to consult a dermatologist if the feeling persists.

In the event of swallowing : Do not give the patient anything orally.
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
In the event of ingestion, to consult a doctor or to contact a processing center of the intoxications.

Most important symptoms and effects, both acute and delayed : No data available.

Indication of any immediate medical attention and special treatment needed : No data available

5 – FIRE-FIGHTING MEASURES

Extinguishing media : No data available.

Special hazards arising from the substance or mixture : Non-Flammable
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.

Decomposition Products : In the event of a fire, the following may be formed:
- carbon monoxide (CO)
- carbon dioxide (CO₂)

Advice for firefighters : Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 – ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Consult the safety measures listed under headings 7 and 8.
- For non-first aid worker** : Avoid any contact with the skin and eyes.
- For first aid worker** : First aid workers will be equipped with suitable personal protective equipment (See section 8).
- Environmental precautions** : Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.
- Methods and material for containment and cleaning up** : Clean preferably with a detergent, do not use solvents.
Use some absorbent.
The elimination must be carried out by a registered salvage professional.

7 – HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

- Precautions for safe handling** : Always wash hands after handling.
Do not eat or drink during the use.
Avoid inhalation of the steams.
Do not mix with another chemical product.
Consult the note before use.
Follow hygiene and security biocidal rules.
- Fire prevention** : Prevent access by unauthorized personnel.
- Recommended equipment and procedures** : For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Avoid eye contact with this mixture.
Follow the hygiene and security rules.
- Prohibited equipment and procedures** : No smoking, eating or drinking in areas where the mixture is used.
- Conditions for safe storage, including any incompatibilities** : No data available.
- Storage** : Keep out of reach of children.
N/A
- Packaging** : Always keep in packaging made of an identical material to the original.
- Specific end use(s)** : No data available

8 – EXPSOURE CONTROL/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

France (INRS - ED984: 2008):

CAS	VME-ppm:	VME-mg/m ³ :	VLE-ppm:	VLE-mg/m ³ :	Notes:	TMP N°:
56-81-5	-	10	-	-	-	-
64-17-5	1000	1900	5000	9500	-	84

UK/WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
56-81-5	10 mg/m ³	-	-	-	-
64-17-5	1000 ppm	-	-	-	-

Exposure controls

: Use personal protective equipment that is clean and has been properly maintained.

Personal protection

Store personal protective equipment in a clean place, away from the work area.

measures, such as personal

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

protective equipment

Eye / face protection

: Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes.

Before handling, wear safety goggles with protective sides.

In the event of high danger, protect the face with a face shield.

Before handling powders or dust emission, wear mask goggles.

When spraying, wear a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapors.

Provide eyewash stations in facilities where the product is handled constantly.

Hand protection

: Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended

- : Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties

: Impervious gloves
 Important - use of the product can create cutaneous reactions for reactive people

Body protection

: In case of cutaneous intolerances, to consult a dermatologist

Respiratory protection

: Avoid breathing dust.
 Wear a disposable half-mask dust filter.
 Do not use in closed and not ventilated space.
 Avoid inhalation

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General information

Physical state : fluid liquid

Important health, safety and environmental information:

pH of the substance or preparation : neutral

When a pH measure is possible, it has a value of : not stated

Boiling point/boiling range : 100 °C

Flash point interval : 60°C < Flash point <= 93°C

Vapor pressure : Below 110 kPa (1.10 bar)

Density : = 1

Water solubility : Soluble

Melting point/melting range : not specified

Self-ignition temperature : not specified

Decomposition point/ decomposition range : not specified

Other information : No data available

10 – STABILITY AND REACTIVITY

Reactivity : No data available.

Chemical stability : This mixture is stable under the recommended handling and storage conditions in section 7.

Possibility of hazardous Reactions : No data available.

Conditions to avoid : Avoid:

- formation of dusts
- frost

Incompatible materials : Strong oxidizing materials.

Hazardous decomposition Products : The thermal decomposition may release/form:
- carbon monoxide (CO)
- carbon dioxide (CO₂)

11 – TOXICOLOGICAL INFORMATION

In the event of ingestion, to consult a doctor or to contact a processing center of the intoxications

Information on toxicological effects

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

11 – TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics

Skin contact	: No specific data.
Ingestion	: No specific data.
Inhalation	: No specific data.
Eye contact	: No specific data.

Potential chronic health effects

Short term exposure

Long term exposure

Potential delayed effects	: Not available.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Serious damage to eyes/eye irritation

ETHANOL (CAS: 64-17-5)

Causes serious eye irritation

Corneal haze	: 1 <= Average score < 2 and effects totally reversible within 21 days of observation
Conjunctival redness	: 2 <= Average score < 2.5 and effects totally reversible within 21 days of observation

Mixture

Serious damage to eyes/eye irritation:

Corneal haze	: 1 <= Average score < 2 and effects totally reversible during 7 days of observation. Species: Rabbit
Iritis	: Average score < 1. Species: Rabbit
Conjunctival redness	: Average score >= 2 and effects totally reversible within 7 days of observation. Species: Rabbit

12 – ECOLOGICAL INFORMATION

Do not reject in natural environment.

Toxicity

Mixtures	: No aquatic toxicity data available for the mixture.
Persistence and Degradability	: No data available.
Bioaccumulation	: No data available.
Potential Mobility in soil	: No data available.
Results of PBT and vPvB Assessment	: No data available.
Other adverse effects	: No data available

13 – DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC. CONSIGN TO AN APPROVED COLLECTOR. CONSULT THE PREFECTORAL ORDERS IN FORCE.

Waste treatment methods : Do not pour into drains or waterways.

Waste : Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
 Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging : Empty container completely. Keep label(s) on container.
 Give to a certified disposal contractor

14. TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 – IMDG 2012 – ICAO/IATA 2014).

15 – REGULATORY INFORMATION

SARA 311/312 : Fire hazard
 Immediate (acute) health hazard

SARA Title III Section 302 : None

Extremely Hazardous Substances

SARA Title III Section 313 : None

Toxic Chemicals

US EPA CERCLA Hazardous : None

Substances (40CFR 302.4)

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Ethanol	64-17-5	MA - S, NJ - HS, PA - RTK HS	2.8 – 3.2
Glycerin	56-81-5	MA - S, NJ - HS, PA - RTK HS	4.75- 5.25
Water	7732-18-5		58.2 – 61.8
1-Piperidinecarboxylic Acid, 2-(2-hydroxyethyl)-, 1-methylpropylester	119515-38-7		20.3 – 21.0
Massachusetts Substances: MA – S			
Massachusetts Extraordinary Hazardous Substances: MA -			
Extra HS New Jersey Hazardous Substances: NJ - HS			
Pennsylvania RTK Hazardous Substances: PA - RTK			
HS Pennsylvania Special Hazardous Substances: PA -			
Special HS			

15 – REGULATORY INFORMATION

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances

Control Act : Not listed on TSCA Inventory, for R&D Use Only, Section 5 (h)(3) limitations apply.

Name	CAS	%	PT
SEC-BUTYL 2-(2-HYDROXYETHYL)PIPERIDINE-1-CARBOXYLATE	119515-38-7	200.00 g/kg	19

Product-Type 19 : Repellents and attractants

Chemical safety assessment : No data available

16 – OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.