



SAFETY DATA SHEET

This safety datasheet was created pursuant to the requirements of:
US OSHA HCS 2024

Revision date 15-Jul-2025

Revision Number 2

Issuing Date 01-Aug-2023

1. Identification

Product identifier

Name Other means of identification Product Code(s)
Mimikai Insect Repellent

UN number or ID number
LJ070219

Synonyms
NA1993

Lilly Pilly Repellent, Mimikai Repellent, Mimikai Insect Repellent; Mimikai Mosquito Repellent; Mimikai Tick Repellent

Recommended use of the chemical and restrictions on use

Recommended use Repellant Mosquito & Tick, Non-Aerosol

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Mimikai Inc
PO Box 1046
Warrenton, VA 20186
800-246-1773

E-mail support@mimikai.com

Emergency telephone number

24 Hour Emergency Phone Number 1-800-222-1222

Emergency telephone 800-246-1773 9am-5pm Pacific (PT)

2. Hazard(s) identification

Classification of the substance or mixture

Combustible liquids Category 4

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Warning**Hazard statements**

Combustible liquid.

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

Other information

May be harmful in contact with skin. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Denatured Alcohol	64-17-5	5-10	*
2-Undercanone, 99.62%	112-12-9	5-10	*
Isopropyl Alcohol	67-63-0	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures**Description of first aid measures****Inhalation**

Remove to fresh air.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion

Rinse mouth.

Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear

personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Effects of Exposure None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated objects and areas thoroughly observing environmental regulations.

Prevention of secondary hazards

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection**Control Parameters****Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Denatured Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	TWA: 1000 ppm; TWA: 1900 mg/m ³ ; IDLH: 3300 ppm TWA: 400 ppm;
Isopropyl Alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	TWA: 980 mg/m ³ ; STEL: 500 ppm STEL: 1225 mg/m ³ IDLH: 2000 ppm

Note

See section 16 for terms and abbreviations.

Other information on limit values

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Biological occupational exposure limits

Chemical name	ACGIH
Isopropyl Alcohol 67-63-0	40 mg/L - urine (Acetone) - end of shift at end of workweek

Appropriate engineering controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tight sealing safety goggles.

Hand protection

No special protective equipment required.

Skin and body protection

Antistatic boots. Chemical resistant apron. Wear fire/flame resistant/retardant clothing. Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Straw colored liquid
Physical state	Liquid No information
Color	available No information
Odor (includes odor threshold)	available

Property	Values	Remarks • Method
Melting point / freezing point		No data available No
Boiling point (or initial boiling point or boiling range)		data available No
Flammability		data available No
Flammability Limit in Air		data available ASTM
Upper flammability or explosive limits		Modified No data
Lower flammability or explosive limits		available No data
Flash point	68 °C / 154.4 °F	available No data
Autoignition temperature		available No data
Decomposition temperature		available No data
SADT (°C)		available No data
pH		available No data
pH (as aqueous solution)		available No data
Kinematic viscosity		available No data
Dynamic viscosity	54.3	available No data
Solubility		available No data
Water solubility	Insoluble in water	available No data
Partition coefficient n-octanol/water (log value)		available
Vapor pressure (includes evaporation rate)		
Evaporation rate		
Density and/or relative density		
Bulk density		
Liquid Density		
Relative vapor density	1	
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available
Other information		
Molecular weight	No information available	
VOC content	No information available	
Softening point	No information available	

Information with regard to physical hazard classes

Explosives

Explosive properties	No information available
	No information available

Oxidizing properties

10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information . Specific test data for the substance or mixture is not available.

Inhalation Specific test data for the substance or mixture is not available.

Eye contact May be harmful in contact with skin. Specific test data for the

Skin contact substance or mixture is not available.

Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATEmix (oral)	8,223.60 mg/kg
ATEmix (dermal)	4,756.10 mg/kg
ATEmix (inhalation-vapor)	29.10 mg/l
ATEmix (inhalation-dust/mist)	13.50 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Denatured Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h = 133.8 mg/L (Rat) 4 h
2-Undercanone, 99.62% 112-12-9	= 5 g/kg (Rat) 4710 - 5840 mg/kg (Rat)	> 5000 mg/kg (Rabbit) = 4059 mg/kg (Rabbit)	- > 10000 ppm (Rat) 6 h
Isopropyl Alcohol 67-63-0			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Denatured Alcohol 64-17-5	A3 - Confirmed animal carcinogen (with unknown relevance to humans)	Group 1 - Carcinogenic to humans	Known human carcinogen	Present
Isopropyl Alcohol	A4 - Not classifiable as	Group 3 - Not	-	Present

67-63-0	a human carcinogen	classifiable as to carcinogenicity in humans		
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Reproductive toxicity Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Other adverse effects

No information available.

Interactive effects

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Denatured Alcohol 64-17-5	-	LC50: 12.0 - 16.0mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
2-Undercanone, 99.62% 112-12-9	-	LC50: 1.39 - 1.62mg/L (96h, Pimephales promelas) LC50: 1.6 - 3.1mg/L (96h, Lepomis macrochirus) LC50: 2.2 - 4.4mg/L (96h, Oncorhynchus mykiss)	-	-
Isopropyl Alcohol 67-63-0	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Denatured Alcohol 64-17-5	-0.35
2-Undercanone, 99.62%	4.09

112-12-9	
Isopropyl Alcohol 67-63-0	0.05

Mobility No information available.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of waste product or used containers according to local regulations. Do not allow into any sewer, on the ground or into any body of water.

Contaminated packaging Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

Note: DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)".

DOT

UN number or ID number	NA1993
Proper shipping name	Combustible liquid, n.o.s.
Transport hazard class(es)	Combustible liquid
Packing group	III
Special Provisions	IB3, T1, TP1, 148
DOT Marine Pollutant	NP
Description	NA1993, Combustible liquid, n.o.s. (Denatured Alcohol, Isopropyl Alcohol), III
Emergency Response Guide Number	128

15. Regulatory information

International Inventories

Contact supplier for inventory compliance status

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Denatured Alcohol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Soybean oil 8001-22-7	X	X	X
Denatured Alcohol 64-17-5			
Isopropyl Alcohol 67-63-0			

U.S. EPA Label Information

EPA Pesticide Registration Number 93616-1

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Active Ingredients: Oil of Lemon Eucalyptus* (CAS No. 1245629-80-4).....
 11.00% 2-Undecanone (CAS No. 112-12-9) 7.89% Other
 Ingredients 81.25% Total
 100.00% *Approx. 65%
 p-menthane-3,8-diol Patent No. 11,627,739 EPA Reg. No. 93616-1
 KEEP OUT OF REACH OF CHILDREN
 See directions for use on the side of the container
 READ ENTIRE LABEL BEFORE EACH USE
 FIRST AID
 Call a poison control center or doctor for treatment advice.
 Have the product container or label with you when calling a poison control center
 (1-800-222-1222) or doctor or going for treatment.
 PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Keep away from heat or open flame. DIRECTIONS FOR USE It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read and follow all directions and precautions on this product label. To repel mosquitos and ticks, apply to all areas of exposed skin and clothing. For best results, spread evenly with hand to moisten all exposed skin. Do not spray directly on face. To apply to face, dispense on palm of hand and spread on face and neck. Do not apply over cuts, wounds, irritated or sunburned skin. STORAGE AND DISPOSAL Store the product in a cool, dry place, out of reach of children. If empty: nonrefillable container. Place in rubbish or please recycle. Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

NFPA	Health hazards 1	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection -

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
ATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous
ICAO	Chemicals in Bulk
IECSC	International Civil Aviation Organization
IMDG	Inventory of Existing Chemical Substances in China
IMO	International Maritime Dangerous Goods
	International Maritime Organization

ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NEPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

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Revision Note Initial Release.

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.

End of Safety Data Sheet