

WORK SOLUTION SDS



Zone Out ™ Work Solution 1-6 oz Solution Safety Data Sheet

Issue Date: 14-Oct-2024 Revision Date: 18-Oct-2024 Version 1

1. IDENTIFICATION

Product identifier

Product Name Zone Out Work Solution (1-6 oz / gallon of water)

Other means of identification

SDS # NIS-068

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address Nisus Corporation 100 Nisus Drive Rockford, TN 37853

Emergency telephone number

Company Phone Number Phone: (800)-264-0870

Fax: (865) 577-5825

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Pale yellow liquid Physical state Liquid Odor Clove Cedarwood

Classification: None Signal word: None

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	0.1-1

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

Revision Date: 18-Oct-2024

Description of first aid measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms Not determined.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use CO2, dry chemical, or foam for extinction.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible MaterialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearancePale yellow liquidOdorClove CedarwoodColorPale yellowOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
 Melting point / freezing point No data available
 Initial boiling point and boiling No data available

range

Flash point

Evaporation Rate

Flammability (Solid, Gas)

No data available
Not determined
Not determined

Flammability Limit in Air

Upper flammability or explosive No dat

limits

No data available

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Lower flammability or explosive No data available

limits

Vapor Pressure Not determined No data available **Vapor Density Relative Density** Not determined **Water Solubility** Soluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** No data available **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

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Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

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

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl (S)-2-hydroxypropionate 687-47-8	> 2000 mg/kg (Rat)	-	> 5.4 mg/L (Rat) 4 h
Cottonseed oil 8001-29-4	> 90 mL/kg (Rat)	-	-
Isopropyl Alcohol 67-63-0	= 1870 mg/kg(Rat)	= 4059 mg/kg(Rabbit)	> 10000 ppm(Rat) 6 h

Cornmint Oil 68917-18-0	= 1240 mg/kg (Rat)	-	-
Clove Oil 8000-34-8	= 1370 mg/kg(Rat)	= 1200 mg/kg (Rabbit)	-
Essential Oil 97-53-0	= 1930 mg/kg (Rat)	-	-
Thyme Oil 8007-46-3	= 2840 mg/kg (Rat)	-	-
Cinnamon oil, Ceylon type 8015-91-6	= 2650 mg/kg (Rat)	= 702 mg/kg(Rabbit)	-
Sodium lauryl sulfate 151-21-3	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
Oleic Acid 112-80-1	= 25 g/kg (Rat)	-	-
Triethyl Citrate 77-93-0	= 5900 mg/kg(Rat)	> 5 g/kg (Rabbit)	= 1300 ppm (Rat) 6 h
Monolaurin 142-18-7	= 53400 µL/kg(Rat)	-	-
Sesame oil 8008-74-0	-	> 2 g/kg(Rabbit)	-

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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X
Essential Oil 97-53-0		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethyl (S)-2-hydroxypropionate		LC50: =320mg/L (96h, Brachydanio	EC50: =683mg/L (48h, Daphnia
687-47-8		rerio)	magna)
Isopropyl Alcohol	EC50: >1000mg/L (96h,	LC50: =9640mg/L (96h, Pimephales	EC50: =13299mg/L (48h, Daphnia
67-63-0	Desmodesmus subspicatus)	promelas)	magna)
	EC50: >1000mg/L (72h,	LC50: =11130mg/L (96h,	
	Desmodesmus subspicatus)	Pimephales promelas)	
		LC50: >1400000µg/L (96h, Lepomis	
		macrochirus)	
Essential Oil		LC50: =13mg/L (96h, Danio rerio)	
97-53-0			

Codium lound cultate	FCF0: F2mg/L /72h	LCEO: 15 19.0mg/L (06h	FCEO: 1 9mg/l (19h Donhain
Sodium lauryl sulfate 151-21-3	EC50: =53mg/L (72h,	LC50: 15 - 18.9mg/L (96h,	EC50: =1.8mg/L (48h, Daphnia
151-21-3	Desmodesmus subspicatus)	Pimephales promelas)	magna)
	EC50: 30 - 100mg/L (96h,	LC50: 8 - 12.5mg/L (96h,	
	Desmodesmus subspicatus)	Pimephales promelas)	
	EC50: =117mg/L (96h,	LC50: 22.1 - 22.8mg/L (96h,	
	Pseudokirchneriella subcapitata)	Pimephales promelas)	
	EC50: 3.59 - 15.6mg/L (96h,	LC50: 4.3 - 8.5mg/L (96h,	
	Pseudokirchneriella subcapitata)	Oncorhynchus mykiss)	
		LC50: =4.62mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =4.2mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =7.97mg/L (96h, Brachydanio	
		rerio)	
		LC50: 9.9 - 20.1mg/L (96h,	
		Brachydanio rerio)	
		LC50: 4.06 - 5.75mg/L (96h,	
		Lepomis macrochirus)	
		LC50: 4.2 - 4.8mg/L (96h, Lepomis	
		macrochirus)	
		LC50: =4.5mg/L (96h, Lepomis	
		macrochirus)	
		LC50: 5.8 - 7.5mg/L (96h,	
		Pimephales promelas)	
		LC50: 10.2 - 22.5mg/L (96h,	
		Pimephales promelas)	
		LC50: 6.2 - 9.6mg/L (96h,	
		Pimephales promelas)	
		LC50: 13.5 - 18.3mg/L (96h,	
		Poecilia reticulata)	
		LC50: 10.8 - 16.6mg/L (96h,	
		Poecilia reticulata)	
		LC50: =1.31mg/L (96h, Cyprinus	
		carpio)	
Oleic Acid		LC50: =205mg/L (96h, Pimephales	
112-80-1		promelas)	

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Persistence/Degradability

Not determined.

<u>Bioaccumulation</u>
There is no data for this product.

Mobility

Chemical name	Partition coefficient
Isopropyl Alcohol	0.05
67-63-0	

Other adverse effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status	
Isopropyl Alcohol	Toxic	
67-63-0	Ignitable	

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECI	PICCS	AIIC
Ethyl (S)-2- hydroxypropionate	Х	ACTIVE	Х	X	Х		Х	Х	
Cottonseed oil	Х	ACTIVE	Х	Х		Х	Х	Х	Х
Isopropyl Alcohol	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Essential Oil	Х	ACTIVE	X	X	Х	X	Х	Х	Х
Clove Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Cornmint Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Cedar Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Thyme Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Cinnamon oil, Ceylon type	Х	ACTIVE	Х			Х	Х	Х	Х
Sodium lauryl sulfate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Oleic Acid	Х	ACTIVE	Х	Х	Х	X	Х	Х	Х
Triethyl Citrate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Monolaurin	Х	ACTIVE	Х	Х	Х	X	Х	Х	Х
Xanthan gum	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Sesame oil	Х	ACTIVE	Х	Х		Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

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).

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SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	0.1-1	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol	X	X	X
67-63-0			
Oleic Acid			X
112-80-1			

16. OTHER INFORMATION

Issue Date: 14-Oct-2024
Revision Date: 18-Oct-2024
Revision Note: New format
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.



100 Nisus Drive • Rockford, TN 37853 USA • (800) 264-0870

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CONCENTRATE SDS



Zone Out ™ Safety Data Sheet

Issue Date: 18-Sep-2024 Revision Date: 28-Mar-2025 Version 2

1. IDENTIFICATION

Product identifier

Product Name Zone Out Concentrate

Other means of identification

SDS # NIS-067

UN/ID No UN1993

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address Nisus Corporation 100 Nisus Drive Rockford, TN 37853

Emergency telephone number

Company Phone Number Phone: (800)-264-0870

Fax: (865) 577-5825

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Pale yellow liquid Physical state Liquid Odor Clove Cedarwood

Classification

Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 3

Signal Word Danger

Hazard statements

Causes serious eye damage Flammable liquid and vapor





Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Ethyl (S)-2-hydroxypropionate	687-47-8	7-13
Isopropyl Alcohol	67-63-0	3-7
Sodium lauryl sulfate	151-21-3	0.5-1.5

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms May be harmful if swallowed. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use CO2, dry chemical, or foam for extinction.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container

tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a well-ventilated place. Keep cool.

Incompatible MaterialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	_

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Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearancePale yellow liquidOdorClove CedarwoodColorPale yellowOdor ThresholdNot determined

Property Values Remarks • Method

pH 2.5-4.5

Melting point / freezing point
No data available
No data available
No data available

range

Flash point 43 °C / 109.4 °F CC (closed cup)

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor PressureNot determinedVapor DensityNo data available

Relative Density 8.12-8.14 **Water Solubility** Soluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined Autoignition temperature No data available **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

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Conditions to Avoid

Keep out of reach of children.

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

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion May be harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl (S)-2-hydroxypropionate 687-47-8	> 2000 mg/kg (Rat)	-	> 5.4 mg/L (Rat) 4 h
Cottonseed oil 8001-29-4	> 90 mL/kg (Rat)	-	-
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h
Essential Oil 97-53-0	= 1930 mg/kg (Rat)	-	-
Clove Oil 8000-34-8	= 1370 mg/kg (Rat)	= 1200 mg/kg (Rabbit)	-
Cornmint Oil 68917-18-0	= 1240 mg/kg (Rat)	-	-
Thyme Oil 8007-46-3	= 2840 mg/kg (Rat)	-	-
Cinnamon oil, Ceylon type 8015-91-6	= 2650 mg/kg (Rat)	= 702 mg/kg (Rabbit)	-
Sodium lauryl sulfate 151-21-3	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
Sesame oil 8008-74-0	-	> 2 g/kg (Rabbit)	-
Oleic Acid 112-80-1	= 25 g/kg (Rat)	-	-
Triethyl Citrate 77-93-0	= 5900 mg/kg (Rat)	> 5 g/kg(Rabbit)	= 1300 ppm (Rat) 6 h
Monolaurin 142-18-7	= 53400 μL/kg(Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

Serious eye damage/eye

Causes severe eye damage.

irritation

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X
Essential Oil 97-53-0		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 Oral LD50
 4,880.10 mg/kg

 Dermal LD50
 7,294.70 mg/kg

 ATEmix (inhalation-dust/mist)
 33.80 mg/l

 ATEmix (inhalation-vapor)
 283.40 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethyl (S)-2-hydroxypropionate		LC50: =320mg/L (96h, Brachydanio	EC50: =683mg/L (48h, Daphnia
687-47-8		rerio)	magna)
Isopropyl Alcohol	EC50: >1000mg/L (96h,	LC50: =9640mg/L (96h, Pimephales	EC50: =13299mg/L (48h, Daphnia
67-63-0	Desmodesmus subspicatus)	promelas)	magna)
	EC50: >1000mg/L (72h,	LC50: =11130mg/L (96h,	
	Desmodesmus subspicatus)	Pimephales promelas)	
		LC50: >1400000µg/L (96h, Lepomis	
		macrochirus)	
Essential Oil		LC50: =13mg/L (96h, Danio rerio)	
97-53-0			
Sodium lauryl sulfate	EC50: =53mg/L (72h,	LC50: 15 - 18.9mg/L (96h,	EC50: =1.8mg/L (48h, Daphnia
151-21-3	Desmodesmus subspicatus)	Pimephales promelas)	magna)
	EC50: 30 - 100mg/L (96h,	LC50: 8 - 12.5mg/L (96h,	
	Desmodesmus subspicatus)	Pimephales promelas)	
	EC50: =117mg/L (96h,	LC50: 22.1 - 22.8mg/L (96h,	
	Pseudokirchneriella subcapitata)	Pimephales promelas)	
	EC50: 3.59 - 15.6mg/L (96h,	LC50: 4.3 - 8.5mg/L (96h,	
	Pseudokirchneriella subcapitata)	Oncorhynchus mykiss)	
		LC50: =4.62mg/L (96h, Oncorhynchus mykiss)	
		LC50: =4.2mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =7.97mg/L (96h, Brachydanio	
		rerio)	
		LC50: 9.9 - 20.1mg/L (96h,	
		Brachydanio rerio)	
		LC50: 4.06 - 5.75mg/L (96h,	
		Lepomis macrochirus)	
		LC50: 4.2 - 4.8mg/L (96h, Lepomis	

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Γ		macrochirus)
ı		,
ı		LC50: =4.5mg/L (96h, Lepomis
ı		macrochirus)
ı		LC50: 5.8 - 7.5mg/L (96h,
ı		Pimephales promelas)
ı		LC50: 10.2 - 22.5mg/L (96h,
ı		Pimephales promelas)
ı		LC50: 6.2 - 9.6mg/L (96h,
		Pimephales promelas)
		LC50: 13.5 - 18.3mg/L (96h,
		Poecilia reticulata)
		LC50: 10.8 - 16.6mg/L (96h,
		Poecilia reticulata)
		LC50: =1.31mg/L (96h, Cyprinus
		carpio)
ŀ	Olete Astal	
	Oleic Acid	LC50: =205mg/L (96h, Pimephales
1	112-80-1	promelas)

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Ethyl (S)-2-hydroxypropionate 687-47-8	0.06
Isopropyl Alcohol 67-63-0	0.05
Sodium lauryl sulfate 151-21-3	1.6

Other adverse effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Isopropyl Alcohol	Toxic
67-63-0	Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOTNOT REGULATED if shipped in NON BULK packaging (single containers less than 119 gal/

882 lbs) by ground transport.

BULK Packaging (single containers larger than 119 gal/ 882 lbs):

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Isopropanol)

Transport hazard class(es) 3
Packing Group III

IATA

UN number or ID number UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Isopropanol)

Transport hazard class(es) 3
Packing group III

IMDG

UN number or ID number UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Isopropanol)

Transport hazard class(es) 3
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECI	PICCS	AIIC
Ethyl (S)-2- hydroxypropionate	Х	ACTIVE	Х	Х	Х		Х	Х	
Cottonseed oil	Х	ACTIVE	Х	X		X	Х	X	Х
Isopropyl Alcohol	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х
Essential Oil	Х	ACTIVE	X	X	Χ	Х	X	Х	X
Clove Oil	Х	ACTIVE	X			X	X	X	Х
Cornmint Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Cedar Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Thyme Oil	Х	ACTIVE	Х			Х	Х	Х	Х
Cinnamon oil, Ceylon type	Х	ACTIVE	Х			Х	Х	Х	Х
Sodium lauryl sulfate	Х	ACTIVE	Х	X	Х	Х	Х	Х	X
Sesame oil	Х	ACTIVE	Х	X		X	Х	X	Х
Oleic Acid	Х	ACTIVE	Х	X	Х	Х	Х	Х	X
Triethyl Citrate	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х
Monolaurin	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Xanthan gum	Х	ACTIVE	X	X	Χ	Х	Х	X	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

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).

SARA 313

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	3-7	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Cottonseed oil 8001-29-4			Х
Isopropyl Alcohol 67-63-0	X	X	Х
Oleic Acid 112-80-1			Х

16. OTHER INFORMATION

NFPA	Health hazards	Flammability	Instability	Special hazards
	-	-	-	-
<u>HMIS</u>	Health hazards	Flammability	Physical hazards	Personal Protection
	-	-	-	Not determined

Issue Date:18-Sep-2024Revision Date:27-Mar-2025

Revision Note: Transportation update

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.



100 Nisus Drive • Rockford, TN 37853 USA • (800) 264-0870

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