

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SSS OmniAir™ Odor Management Refill, Mint Fresh
Product # 74364
Version # 01
Issue date 12-19-2012
Revision date -
Supersedes date -
CAS # Mixture
Manufacturer/Supplier Triple S
2 Executive Park Drive
Billerica, MA 01862
Telephone number: 978-667-7900
Emergency 1-888-779-1339

2. Hazards Identification

Physical state Liquid.
Appearance Clear yellow liquid.
Emergency overview WARNING
Combustible liquid and vapor.
Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed - may enter lungs if swallowed or vomited.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure Inhalation. Eye contact. Skin contact.
Eyes Direct contact with eyes may cause temporary irritation.
Skin Causes skin irritation. May cause allergic skin reaction.
Inhalation In high concentrations, vapors may be irritating to the respiratory system.
Ingestion Harmful if swallowed - may enter lungs if swallowed or vomited.
Potential environmental effects The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Campher	76-22-2	10 - 20
Alpha-pinene	80-56-8	1 - 5
Terpinolene	586-62-9	1 - 5
p-Cymene	99-87-6	1 - 3
Limonene	5989-27-5	0.5 - 3

Composition comments All concentrations are in percent by weight.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
Skin contact Wash with soap and water. Get medical attention if symptoms occur after washing.
Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion

Call a physician or poison control center immediately. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

5. Fire Fighting Measures

Flammable properties

The product is combustible, but not flammable.

Extinguishing media

Suitable extinguishing media

Water fog. Carbon dioxide (CO₂). Dry chemical. Foam.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

Hazardous combustion products

Carbon oxides.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions

Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

Methods for cleaning up

Remove sources of ignition. Beware of the explosion danger. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Small Spills: Absorb spillage with non-combustible, absorbent material.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

7. Handling and Storage

Handling

Wear appropriate personal protective equipment. Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Wash thoroughly after handling.

Storage

Do not handle or store near an open flame, heat or other sources of ignition. Protect against direct sunlight. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store away from incompatible materials. Avoid uncoated metal containers. Minimize exposure to air.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components

Components	Type	Value
Alpha-pinene (80-56-8)	TWA	20 ppm
Campher (76-22-2)	STEL	3 ppm
	TWA	2 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components

Components	Type	Value
Campher (76-22-2)	PEL	2 mg/m ³

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components

Components	Type	Value
Campher (76-22-2)	STEL	19 mg/m ³
		3 ppm
	TWA	12 mg/m ³
		2 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Alpha-pinene (80-56-8)	TWA	20 ppm
Campher (76-22-2)	STEL	3 ppm
	TWA	2 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Alpha-pinene (80-56-8)	TWA	20 ppm
Campher (76-22-2)	STEL	3 ppm
	TWA	2 ppm
p-Cymene (99-87-6)	TWA	274 mg/m ³
		50 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Campher (76-22-2)	STEL	19 mg/m ³
		3 ppm
	TWA	12 mg/m ³
		2 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Campher (76-22-2)	STEL	19 mg/m ³
		3 ppm
	TWA	12 mg/m ³
		2 ppm

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection

In case of inadequate ventilation use suitable respirator.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Clear yellow liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear to yellow.
Odor	Not assigned.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	131 °F (55 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.

Auto-ignition temperature Not available.
Partition coefficient (n-octanol/water) No data available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.
Conditions to avoid Contact with incompatible materials. Keep away from heat, sparks, and flame.
Incompatible materials Strong oxidizing agents. Strong acids. Alkalis.
Hazardous decomposition products Carbon oxides. Unidentified organic compounds.
Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Alpha-pinene (80-56-8)		
Acute		
<i>Oral</i>		
LD50	Rat	3700 mg/kg
Campher (76-22-2)		
Acute		
<i>Oral</i>		
LD50	Mouse	1310 mg/kg
<i>Other</i>		
LD50	Mouse	3000 mg/kg
	Rat	70 mg/kg
Limonene (5989-27-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	5 g/kg
<i>Oral</i>		
LD50	Rat	4400 mg/kg
p-Cymene (99-87-6)		
Acute		
<i>Oral</i>		
LD50	Rat	3669 mg/kg
Terpinolene (586-62-9)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
	Rat	> 5 ml/kg
<i>Oral</i>		
LD50	Mouse	> 4000 mg/kg

Sensitization May cause allergic skin disorders in sensitive individuals.

ACGIH Sensitizer

Alpha-pinene (CAS 80-56-8) Sensitizer.

Acute effects Causes skin irritation. Harmful if swallowed - may enter lungs if swallowed or vomited.

Chronic effects Chronic effects are not expected when this product is used as intended.

Carcinogenicity None known.

ACGIH Carcinogens

Alpha-pinene (CAS 80-56-8) A4 Not classifiable as a human carcinogen.

Campher (CAS 76-22-2) A4 Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
Limonene (5989-27-5)		
Aquatic		
Crustacea	EC50	Daphnia 0.42 mg/l, 48 Hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours
Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.	
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Persistence and degradability	No data available.	
Bioaccumulation / Accumulation	No data available.	
Partition coefficient	No data available.	
p-Cymene		4.1
Terpinolene		4.23
Limonene		4.232
Alpha-pinene		4.83
Mobility in environmental media	No data available.	

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow this material to drain into sewers/water supplies.
Waste from residues / unused products	Dispose of waste and residues in accordance with local authority requirements.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1169
Proper shipping name	Extracts, aromatic, liquid, MARINE POLLUTANT
Hazard class	3
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Additional information:	
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1169
UN proper shipping name	Extracts, aromatic, liquid
Transport hazard class(es)	3
Packing group	III
Environmental hazards	Yes
ERG code	3L

IMDG

UN number	UN1169
UN proper shipping name	EXTRACTS, AROMATIC, LIQUID, MARINE POLLUTANT
Transport hazard class(es)	3
Packing group	III

Environmental hazards**Marine pollutant** Yes**EmS No.** F-E, S-D**TDG****Proper shipping name** EXTRACTS, AROMATIC, LIQUID, MARINE POLLUTANT**Hazard class** 3**UN number** UN1169**Packing group** III**Marine pollutant** Yes**15. Regulatory Information****US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Alpha-pinene: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)** No**Section 311/312 (40 CFR 370)** Yes**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)** Not controlled**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**WHMIS status** Controlled**WHMIS classification**
B3 - Combustible Liquids
D2B - Other Toxic Effects-TOXIC**WHMIS labeling****Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

US - California Hazardous Substances (Director's): Listed substance

Campher (CAS 76-22-2) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - New Jersey RTK - Substances: Listed substance

Alpha-pinene (CAS 80-56-8) Listed.

Campher (CAS 76-22-2) Listed.

Limonene (CAS 5989-27-5) Listed.

p-Cymene (CAS 99-87-6) Listed.

Terpinolene (CAS 586-62-9) Listed.

US. Massachusetts RTK - Substance List

Alpha-pinene (CAS 80-56-8) Listed.

Campher (CAS 76-22-2) Listed.

p-Cymene (CAS 99-87-6) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Alpha-pinene (CAS 80-56-8) Listed.

Campher (CAS 76-22-2) Listed.

p-Cymene (CAS 99-87-6) Listed.

Mexico regulations

This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 2
Instability: 0

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.