Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Flavor, Spearmint oil
Commercial Name Not available.
Product Use Not available
Restrictions On Use Not available

Product Code 30-1178

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Flam. Liq. 4 Acute Tox. 4 (oral) Skin Irrit. 2 Skin Sens. 1 Asp. Tox. 1 Aquatic Acute 2 Aquatic Chronic 2

Signal Word DANGER

Hazard Statement(s) Combustible liquid. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear proective gloves/protective clothing/eye protection.

Response IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Wash with plenty of water/... Rinse mouth. Do NOT induce vomiting If skin irritation occurs: get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. In case of fire: Use media other than water to extinguish Collect spillage.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

Disposal Dispose in a safe manner in accordance with local/national regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixtures
Components Spearmint Oil
% By Weight 100
CAS# 8008-79-5
Molecular Weight Not available.
Chemical Formula Not available.
Synonym(s) Not available.

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
L-CARVONE	6485-40-1	65-80	Not available.	ORAL (LD50):Acute: 5000mg/kg [Rat].
L-LIMONENE	5989-54-8	14-21	Not available	Flam liq 3, skin irrit 2. skin sens, ap tox,aquatic acute, aquatic chronic

Section 4: First-Aid Measures

Inhalation Remove person to fresh air and keep comfirtable for breathing. Allow affected person to breathe fresh air. Allow victim to rest.

Skin Contact Wash skin with plenty of water, Take off contaminated clothing, If skin irritation or rash occurs. Get medical attention. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention.

Eye Contact Rinse eye with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists

Ingestion Do not induce vomiting. Call a physician immediately. Rinse mouth. Do not induce vomiting. Immediaely call a POISON CENTER / doctor

Symptoms/Effects

Acute May cause an allergic skin reaction, Irritation, Risk of lung oedema. May be fatal if swallowed and enters airways

Delayed May cause an allergic skin reaction, Irritation, Risk of lung oedema. May be fatal if swallowed and enters airways

Immediate Medical Attention

treat symptomtically

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

dry chemical powder. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media

Do not use a heavy water stream.

Products of Combustion

The product is non-reactive under normal conditions of use, storage and transport

Firefighters Special Equipment and Precautions

Use of water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment . Do not attempt to take action without a suitable protective quipment. Self-contained breathing apparatus, Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/ vapours/ spray. Evacuate unnecessary personnel. Protective equiment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 " exposure controls/personal protection". Equip cleanup crew with proper protection. Emergency procedures: Prevent entry to sewers and public water. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. For containemnt collect spillage Methods for cleaning up: Take up liquid spill into absorbant material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dispose material or solid residues at an authorized site.

Section 7: Handling and Storage

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 7.2 Conditions for Safe Storage, Including Any Incompatibilities Storage conditions Store locked up. Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well-ventilated place away from heat. Keep container closed when not in use. Incompatible products: Strong bases. Strong acids. Incompatible materials: Sources of ignition. Direct sunlight.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Ensure good ventilation of the work station. Avoid all unnecessary exposure
Personal Protection	Hand protection: Gloves, wear protective clothing. eye protection. Eye protection : Safety glasses. Chemical goggles or safety glasses. Skin and body protection: Wear suitable protective clothing. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment Avoid release to the environment Do not eat, drink or smoke during use

Section 9: Physical and Chemical Properties

Appearance	Colorless liquid
Odor	Not available.
Odor Threshold	Not available.

Melting Point	Not available.	**pH**	Not available.
Freezing Point	Not available.	**Vapor Pressure**	~0.4 HM HG @20C
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Not available.	**Evaporation Rate**	Not available.
Flash Point	153 F	**Autoignition temperature**	Not available.
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Easily soluble in methanol. Insoluble in cold water.
Other	Not available.

Section 10: Stability and Reactivity

Reactivity	This product is non reactive under normal conditions of use, transport and storage
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Not available
Conditions to Avoid	Direct sunlight. Extreely high or low temp
Incompatible Materials	strong acids and strong bases
Hazardous Decomposition Products	No hazardous decomposition product known at room temp, fume, carbon monoxide, carbon dioxide

Section 11: Toxicological Information

RTECS WG7360000

Acute Toxicity
Spearmint Oil (8008-79-5): ATE US (oral) 500 mg/kg bodyweight L-CARVONE (6485-40-1): LD50 oral rat 1640 mg/kg (Rat) ATE US (oral) 1640.000 mg/kg bodyweight L-Limonene (5989-32-8): LD50 oral rate >5000 mg/kg (rat) LD50 dermal rabbit > mg/kg (rabbit)

Skin Corrosion/Irritation
Causes skin irritation

Serious Eye Damage/Irritation
Not available.

Respiratory or Skin Sensitization
May cause an allergic skin reaction

Germ Cell Mutagenicity
Not available.

Carcinogenicity
None

Reproductive Toxicity
Not available.

Routes of Entry
Ingestion.

Symptoms Related to Exposure
Not available.

Potential Health Effects
Not available.

Target Organ(s) May be fatal if swallowed and enters airways

Section 12: Ecological Information

Ecotoxicity
Ecology - general: Toxic to aquatic life with long lasting effects. Ecology - water: Toxic to aquatic life with long lasting effects. L-LIMONENE (5989-54-8) Parameter Value LC50 - Fish (1) 0.702 mg/l (96 h; Pimephales promelas; Other isomer) EC50 - Crustacea (1) 0.73 mg/l (48 h; Daphnia pulex; Other isomer)

Persistance and Degradability
May cause long-term adverse effects in the environment. Biodegradability in water: no data available. Ozonation in the air. Photodegradation in the air. ThOD 2.79 g O2/g substance Readily biodegradable in water. Adsorbs into the soil. ThOD 3.29 g O2/g substance

Bioaccumulative Potential
Not available.

Mobility in Soil
Not available.

Other Adverse Effects
Avoid release to the environment

Section 13: Disposal Considerations

Waste Disposal
Dispose contents/container in accordance with licensed collector sorting instructions

Disposal of Container
Dipsose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local national regulations

Other Considerations
Avoid release to the environment. Hazardous waste due to toxicity

Section 14: Transport Information

DOT Classification
In accordance with DOT: Not regulated for transpor Transportation of Dangerous Goods: No information available Transport by sea: UN-No (IMDG):3082 Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N/O.S Class (IMDG): 9-Miscellaneous dangerous substances and articles Packing group (IMDG): III-Substances presenting low danger MFAG-No:127;128 Air transport: UN-No.(IATA):3082 Proper Shipping Name (IATA): Environmentally hazardous substance, liquid, n.o.s CLASS (IATA): 9-Miscellaneous dangerous goods Packing group (IATA): III-Minor Danger Civil Aeronautics Law: Flammable liquids

Section 15: Regulatory Information

Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;Pensylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE

Other

WHMIS CLASS B-3: Combustible liquid with a flash (Canada) point between 37.8°C (100°F) and 93.3°C (200°F).;DSCL (EEC) R36- Irritating to eyes.;Lab coat.;Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Splash goggles.

Section 16: Other Information

Not avaiable.