

**Section 1: Identification**
**Product Name** Flavor, Orange Oil (Florida Type)

**Commercial Name** Not available.

**Product Use** Not available.

**Restrictions On Use** Not available.

**Product Code** 30-1396

**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:** Skin corrosion/irritation Category 2 Skin sensitization Category 1B Aspiration toxicity Category 1 Flammable liquids Category 3

**Signal Word** DANGER

**Hazard Statement(s)** Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Flammable liquid and vapor.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**
**Prevention**

Wash face, hand and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Response**

In case of fire: Use CO2, dry chemical or foam for extinction.

**Storage**

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

**Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Section 3: Composition/Information on Ingredients**
**Substance/Mixture** Substance

**Components** Flavor, Orange Oil (Florida Type)

**% By Weight** 100

**CAS#** 8008-57-9

**Molecular Weight** Not available.

**Chemical Formula** C16H10N2NA2O7S2

**Synonym(s)** Not available.

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Flavor, Orange Oil (Florida Type)	8008-57-9	100	Not available.	Not available.
Limonene	5989-27-5	>= 25%		
Myrcene	123-35-3	1-<5%		
Octanal	124-13-0	0.1-1%		
Decanal	112-31-2	0.1-1%		
Citral	5392-40-5	0.1-1%		

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
<b>Ingestion</b>	Do not induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available.
<b>Delayed</b>	Not available.

**Immediate Medical Attention**

Remove all sources of ignition. Use personal protective equipment. May cause sensitization of susceptible persons. Treat symptomatically.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam. Flammable; may be ignited by heat, sparks or flames

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**Products of Combustion**

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Flammable.

**Firefighters Special Equipment and Precautions**

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

**Section 6: Accidental Release Measures**

Personal precautions: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Methods for Containment: Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

**Section 7: Handling and Storage**

Advice on safe handling: Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. Storage: Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Showers Eyewash stations Ventilation systems.

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**Personal Protection**

Eye/Face Protection Tightly fitting safety goggles. Face-shield. Skin and body protection: Chemical resistant apron. Respiratory protection: if exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Hygiene measures: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Clear Dark Orange Liquid.		
<b>Odor</b>	Characteristic		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	Not available.	<b>pH</b>	Not available.
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not available.
<b>Boiling Point/Range</b>	329 °F / 165 °C	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	118 °F / 48 °C	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Flammable; may be ignited b	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Exothermic reaction
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	None under normal processing.
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information****RTECS** RI8600000**Acute Toxicity**

Not available.

**Skin Corrosion/Irritation**

Not available.

**Serious Eye Damage/Irritation**

Not available.

**Respiratory or Skin Sensitization**

Not available.

**Germ Cell Mutagenicity**

Not available.

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

**Reproductive Toxicity**

Not available.

**Routes of Entry**

Not available.

**Symptoms Related to Exposure**

Not available.

**Potential Health Effects**

Not available.

**Target Organ(s)** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure**Section 12: Ecological Information****Ecotoxicity**

4.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Persistence and Degradability**

Not available.

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of in accordance with local regulations.

**Disposal of Container**

Do not re-use empty containers.

**Other Considerations**

US EPA Waste Number D001

**Section 14: Transport Information****DOT Classification**

IMDG/IMO UN Number 1169 Proper shipping name Extracts, aromatic, liquid Hazard Classification 3 Packaging Group III Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO ADR/RID UN Number 1169 Proper shipping name Extracts, aromatic, liquid Hazard Classification 3 Packing Group III ICAO/IATA UN Number 1169 Proper shipping name Extracts, aromatic, liquid Hazard Classification 3 Packing Group III

**Section 15: Regulatory Information****Regulations**

Not available.

**Other**

Not available.

**Section 16: Other Information**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text. This material has not been evaluated for safe use in e-cigarettes, therefore Ungerer & Company's position is that it is not intended to be used in this particular application