

PO BOX 337
Necedah, WI 54646

HIMS Hazard Class

Health..... = 1
Flammability..... = 1
Reactivity = 0
0 =least, 1=slight
2 =moderate,
3 =serious
4 =severe

Fragrance: Mandarin Oranges

Material Safety Data Sheet

Emergency Phone Number (24 Hours)

Chemtrec: 800-424-9300 (for U.S., Canada, Mexico)
703-527-3887 (International)

Section 1: Substance Identification

Product/Material: Fragrance Oil
Product Description: Fragrance

Section 2: Physical Data

Appearance and Odor: Clear liquid with a characteristic note
Boiling Point (of most volatile component) >1%: 200⁰ F
Vapor Pressure: N/A Vapor Density (air=1): >1
Specific Gravity@20C: 1.06 Melting Point: N/A, liquid
Solubility in water: Slight

Section 3: Fire & Explosion Hazards Identification

Flash Point (degrees^F closed cup) 200
Extinguishing Media: Carbon Dioxide, Dry Chemical or Foam
Special Fire Fighting Procedures: Sealed Containers exposed to heat can build up pressure, cool containers with water spray. Self contained breathing apparatus and protective clothing is recommended.
Unusual Fire and Explosion Hazards: None known or expected.

Section 4: Health Hazard Information

Threshold Limit Value (ACGIH TLV) Not established
OSHA Permissible Exposure Limit (PEL) Not Established
Carcinogenicity – NTP Monograph: NO, OSHA: NO, IARC: NO
Oral LD 50: Not Established. Target Organs: Not Known

NOTE: The composition of this product is classified as a Trade Secret in accordance with CFR 29 1910.1200. This product is a mixture for which no health hazard data exist. The Hazard communication standard requires that such mixtures be assumed to present the same health hazards as do components that constitute at least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards for individual components may be altered by including them in a mixture. Based on information currently available from reliable sources, we estimate that this mixture may have properties which could potentially be hazardous to health: HARMFUL IF SWALLOWED, IRRITATING TO EYES, IRRITATING TO SKIN, IRRITATING TO NOSE, THROAT & LUNGS.

Section 5: Emergency & First Aid Procedures

Flash Point (COC)	Above 290 ^F
Flammable Limits (% by volume)	Lower-No data Upper-No data Requires exposure to high temperature & naked flame
Auto-ignition Temperature	above 800 ^F
Suitable Extinguishing Media	Dry Chemical, carbon dioxide foam
Extinguishing media <u>that must not be used</u>	Water
Special Fire Fighting Procedures	Treat as petroleum oil fire
Special protective Fire Fighting equipment	Full-Face, positive pressure, self contained breathing apparatus, and full protective clothing.
Fire & Explosive Conditions	Slight when exposed to high heat or direct flame- Dense smoke may be generated while burning.

Section 6: Accidental Release Measures / Spills & Leaks

Personal Precautions	Safety glasses, chemical goggles
Environmental Precautions	Avoid uncontrolled release of material. Where larger quantity spills are possible, a response plan should be implemented.
Cleaning up method	Wear protective clothing and use an absorbent material soak up spill, then sweep and properly dispose of material in containers. This product is a non hazardous waste when spilled or disposed of as defined in Resource Conservation Recovery Act (RCRA) regulations (40 CFR 261)

Section 7: Handling & Storage

Precautions for Safe Handling	Handle this product with care, avoid over exposure. Wear appropriate safety glasses and protective clothing.
Conditions for safe Handling	Store in cool dry conditions, away from boilers and hot pipes.

Section 8: Exposure Control/ Personal Protection

Precautionary Engineering Measures	In high concentration conditions, local exhaust ventilation.
Respiratory Protection	If concentration is to exceed TLV, suitable organic vapor mask.
Hand Protection	Impervious gloves
Eye Protection	Glasses or goggles
Skin Protection	Protective overalls

Section 9: Physical & Chemical Properties

Appearance	Slightly tinted color liquid
Odor	Resembles name of Fragrance
Ph	ND
Boiling Point/ Boiling Range	620F
Melting Point/ Melting Range	68°F
Oxidizing properties	Not applicable
Vapor pressure (mm Hg)	68°F
Relative density (H ² O=1)	1.126
Water solubility %by weight)	Insoluble
Vapor density (air=1)	7.3
Viscosity @100 ^c	3-6 cSt
Percentage volatile by volume	Not applicable
Evaporation rate (butyl acetate=1)	1

Section 10: Stability & Reactivity

Stability / Conditions to avoid	Stable
Incompatibility / Materials to avoid	Water
Hazardous decomposition Products	strong oxidizing agents could effect color
Hazardous Polymerization	<u>Will not occur</u>

Section 11: Toxicological Information

Hazardous Ingredients	None
Immediate Health	None expected
Delayed Health Effects	None expected
Acute Effects (short term)	None expected

Section 12: Ecological Information

Environmentally dangerous ingredients	None
Mobility	Liquid
Persistence and Degradability	Very slow biodegradation
Bioaccumulative Potential	Not Available
Aquatic toxicity	Not Available
Marie Pollutant (IMDG guide)	Not available

Section 13: Disposal Considerations

Disposal of waste materials	Treat as solid, combustible material
Disposal of waste containers	Normal industrial waste
Disposal restrictions	Compliance with local, state, & Federal laws and restrictions.
Statutory Notification required	See above

Section 14: Transport Information

D.O.T. Classification	Not regulated, not hazardous liquid
UN Number	None
UN Packaging group	None
IMDG classification	Not applicable
Special precautions Re:Carrage	Not required, not regulated, not hazardous liquid
Symbol	Not applicable

Section 15: Regulatory Information**OSHA STATUS**

This product is not hazardous under the criteria of the Federal OSHA hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from his product may be hazardous as noted in sections 2 and 3.

TSCA STATUS: On TSCA Inventory

CERCLA PEPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Non-hazardous under section 311/312 SECTION

313 TOXIC CHEMICALS: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as hazardous waste. (40 CFR 261.20-24)

INTERNATIONAL REGULATIONS

CANADIAN WHIMS: Complies

CANADIAN ENVIRONMENTAL PROTECTION ACT: All components of this product are on the Domestic Substances list (DSL)

EINECS: All components are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

There are no known additional requirements necessary for compliance with right to know regulations.

-- Section 16: Any other Health & Safety Information

Label Hazard Ratings: NFPA: Fire-0 Health-1 Reactivity-0, Specific Hazard-None

HMIS: Health-1 Flammability-1 Reactivity-0 PPI-B

Recommended uses and restrictions: see below

Source of key information used to compile MSDS, ANSI Z400.1-1993

User Responsibility: The information herein is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use vary and are beyond our control it is the users responsibility to determine safe conditions for usage. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In submitting this information, no liability is assumed or license or other rights express or implied given with respect to an existing or pending patent, patent applications, or trademarks. The observance of all legal regulations and patents is the responsibility of the user. Appropriate warnings and safe handling procedures should be provided to handlers and users.