TASTE ADVANTAGE

MATERIAL SAFETY DATA SHEET
BITTERNESS BLOCKER FOR EARLY SEASON ORANGE IN d-LIMONENE, FTNF, NATURAL

Preparation Date 09/01/06

HMIS HAZARD RATING:
Health: 1 Flammability: 2 Reactivity: 1

I. PRODUCT IDENTIFICATION

Product Name:	Bitterness Blocker for Early Season Orange in d-Limonene, FTNF	Chemical Name:	Flavorant, containing d-Limonene
Product Code:	7000905	CAS#	5989-27-5
Formula:	$C_{10}H_{16}$	Chemical Family:	Terpene Hydrocarbon
Molecular Wt.	136.2		

II. HAZARDOUS INGREDIENTS None

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point ^oC:	N.Av.	Specific Gravity (H_20 = 1):	0.842
Vapor Pressure (mm Hg):	N.Av.	Melting Point:	N.Ap.
Vapor Density (AIR = 1):	N.Av.	Evaporation Rate:	N.Av.
Solubility in Water:	Insoluble		
Appearance:	Colorless to Light Yellow Liquid	Odor:	Citrus

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint (Method Used)	104 ^oF (CC)
Lower Flammable Limit (% by Volume)	N.Av.
Upper Flammable Limit (% by Volume)	N.Av.
Extinguishing Media	Dry chemical, foam or water
Special Fire Fighting Procedures	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards	None

V. REACTIVITY DATA

Stability	Chemically Stable	Conditions to Avoid: N.Ap.
Incompatibility with other Substance (Materials to Avoid)	Avoid contact with strong oxidizing agents.	
Hazardous Decomposition or Byproducts	N.Av.	
Hazardous Polymerization	No	Conditions to Avoid: N.Ap.

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VI. HEALTH HAZARD DATA

Routes of Entry	Inhalation? [X] Skin Contact? [X] Skin Absorption? [] Ingestion? [X]
Health Hazards (Acute and Chronic)	Acute: Irritating to skin and eyes. Chronic: None reported.
Carcinogenicity	NTP? [No] IARC Monographs? [No] OSHA Regulated? [No]

VII. EMERGENCY AND FIRST AID PROCEDURES

Inhalation	Remove from the exposure to fresh air. Contact a physician as necessary. If breathing is irregular or has stopped, start resuscitation and administer oxygen if available.
Eye Contact	Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact	Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water. If irritation persists, contact a physician.
Ingestion	Give water to dilute. Contact a physician immediately.

IX. CONTROL MEASURES

Respiratory Protection:	None generally required. If desired use NIOSH approved respirator.
Ventilation:	Local exhaust meeting ACGIH criteria as needed.
Protective Gloves:	Use chemical resistant gloves.
Protective Eyewear:	Use splash goggles or face shield when eye contact might occur.
Other Protective Clothing or Equipment:	None required.

X. EMERGENCY CONTACT INFORMATION

Emergency Contact Name:	**INFOTRAC**
Contact Number (inside US and Canada):	(800) 535-5053
Contact Number (collect outside of US and Canada):	(352) 323-3500