

**Category – Tobacco Added Ingredients**

**Ingredient Name:** Top Oriental Flavor

**CAS#:** N.A.

**MATERIAL SAFETY DATA SHEET**

**FRUTAROM USA INC.**

**9500 RAILROAD AVENUE**

**NORTH BERGEN, NEW JERSEY 07047**

**EMERGENCY CONTACT: CHEMTREC**

**DIAL: 1-800-424-9300**

**I. IDENTIFICATION**

**LABEL NAME:** SOLID EXTRACT ORIENTAL TOBACCO

**FEMA #:** NONE

**PRODUCT CODE:** 3327349201

**CAS #:** NONE

**II. PHYSICAL DATA**

**DESCRIPTION:** A dark brown thick viscous material with a characteristic aroma and taste of tobacco

**SOLUBILITY IN H2O:** Miscible

**SPECIFIC GRAVITY:** N.A

**STABILITY:** Stable

**III. FIRE, EXPLOSION, AND REACTIVITY DATA**

**FLASH POINT:** > 140 °F (closed cup)

**DOT HAZARD :** None

**HMIS:** 1-2-0

**EXTINGUISHING MEDIA:** WATER/FOG X CO2 X FOAM X DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURE:** Use liberal amounts of extinguishing media.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known

**HAZARDOUS COMBUSTIBLE OR DECOMPOSITION PRODUCT:** None known

**CONDITIONS AND MATERIAL TO AVOID:** None known

HAZARDOUS POLYMERIZATION PRODUCTS: None known

#### **IV. PROTECTION INFORMATION**

RESPIRATORY: No specific protection necessary

VENTILATION: General

EYE: Recommend wearing safety goggles

SKIN: Recommend wearing protective gloves.

OTHER PROTECTIVE DEVICES & PROCEDURES: Follow good manufacturing procedures.

#### **V. OCCUPATIONAL EXPOSURE LIMIT**

THRESHOLD LIMIT VALUE (TLV): NOT ESTABLISHED

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): NOT ESTABLISHED

#### **VI. HEALTH HAZARD INFORMATION**

HEALTH HAZARD DETERMINATION:

Liquid may be irritating to skin and eyes.

#### **VII. EMERGENCY AND FIRST AID PROCEDURES**

INHALATION EXPOSURE: Remove to fresh air. If experiencing breathing difficulty, seek medical attention.

EYE CONTACT: Remove contact lenses. Rinse eyes thoroughly with water. If necessary seek medical attention.

SKIN CONTACT: Wash exposed area with a mild soap and water. If irritation occurs, seek medical attention.

OTHER: None

#### **VIII. SPILL, LEAK, AND DISPOSAL PROCEDURES**

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED: Wear protective gloves and goggles. Wet material is slippery. Dike spills to minimize contamination. Sweep, scoop or vacuum up and place in proper disposal container. Immediately flush area with water.

WASTE DISPOSAL METHODS: Dispose Of Properly In Accordance With Local, State, and Federal Regulations.

#### **IX. HANDLING AND STORAGE PROCEDURES**

Store in a cool, dry area in ambient temperature. Keep in tightly closed containers away

from heat, direct sunlight and sources of ignition.

## X. CHEMICAL AND COMMON NAMES

Extract of Tobacco Leaves

PREPARED BY: QUALITY CONTROL DEPARTMENT DATE: 01/01/07

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### MSDS from ChemCAS Tobacco Leaf absolute

#### CHEMICAL IDENTIFICATION

RTECS NUMBER : DS8158000  
CHEMICAL NAME : Betel tobacco extract  
LAST UPDATED : 199510  
DATA ITEMS CITED : 7  
COMPOUND DESCRIPTOR : Tumorigen  
Mutagen  
Natural Product

#### HEALTH HAZARD DATA and SKIN/EYE IRRITATION DATA

TYPE OF TEST : Sister chromatid exchange  
TEST SYSTEM : Human Lymphocyte  
DOSE/DURATION : 10 mg/L

#### REFERENCE :

TOLED5 Toxicology Letters. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1-1977- Volume(issue)/page/year: 8,17,1981

TYPE OF TEST : Micronucleus test  
ROUTE OF EXPOSURE : Intraperitoneal  
TEST SYSTEM : Rodent - mouse

DOSE/DURATION : 24 mg/kg

REFERENCE :

CRNGDP Carcinogenesis (London). (Oxford Univ. Press, Pinkhill House, Southfield Road, Eynsham, Oxford OX8 1JJ, UK) V.1-1980- Volume(issue) /page/year: 5,501,1984

TYPE OF TEST : Morphological transformation

TEST SYSTEM : Rodent - hamster Embryo

DOSE/DURATION : 50 mg/L

REFERENCE :

TOLED5 Toxicology Letters. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1- 1977- Volume(issue)/page/year: 8,17,1981

TYPE OF TEST : Mutation in mammalian somatic cells

TEST SYSTEM : Rodent - hamster Lung

DOSE/DURATION : 5 mg/L

REFERENCE :

CRNGDP Carcinogenesis (London). (Oxford Univ. Press, Pinkhill House, Southfield Road, Eynsham, Oxford OX8 1JJ, UK) V.1- 1980- Volume(issue) /page /year: 5,501,1984

**REVIEWS**

IARC Cancer Review: Human Sufficient Evidence

IMEMDT IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Man. (WHO Publications Centre USA, 49 Sheridan Ave., Albany, NY 12210) V.1- 1972- Volume(issue)/page/year: 37,141,1985

IARC Cancer Review:Animal Limited Evidence

IMEMDT IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Man. (WHO Publications Centre USA, 49 Sheridan Ave., Albany, NY 12210) V.1- 1972- Volume(issue)/page/year: 37,141,1985

IARC Cancer Review:Group 1

IMSUDL IARC Monographs, Supplement. (WHO Publications Centre USA, 49 Sheridan Ave., Albany, NY 12210) No.1-1979- Volume(issue)/page/year: 7,128,1987

References:

- 1.FRUTAROM USA INC., MSDS of Solid Extract Oriental Tobacco
2. MSDS from ChemCAS, Jaffna tobacco