

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lemon Paste (all brands)
SYNONYMS: Pure Lemon Paste
PRODUCT CODES:

MANUFACTURER: Nielsen Massey Vanillas, Inc.
DIVISION:
ADDRESS: 1550 Shield Drive, Waukegan, Illinois 60085

EMERGENCY PHONE: 800-525-7873
CHEMTREC PHONE: 800-424-9300
OTHER CALLS: 847-578-1550
FAX PHONE: 847-578-1570

PRODUCT USE: Flavor in foods

SECTION 1 NOTE: GRAS Material under 21 CFR 165.3 and 171.2

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: : No known significant effects or critical hazards.

ROUTES OF ENTRY: Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS

EYES: Burning and irritation due to alcohol content

SKIN: Irritation due to alcohol content

INGESTION: Irritation, nausea and vomiting due to alcohol effects

INHALATION: Irritation and vertigo due to alcohol content

ACUTE HEALTH HAZARDS: : No known significant effects or critical hazards.

CHRONIC HEALTH HAZARDS: : No known significant effects or critical hazards.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards.

TERATOGENICITY : No known significant effects or critical hazards.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Sugar, Water, Lemon Extract, and Gum Tragacanth

<u>CAS NO.</u>	<u>64-17-5</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Alcohol, ethyl alcohol			6-10%	No
EINECS: 200-578-6				

SECTION 2 NOTES: No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

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SECTION 4: FIRST AID MEASURES

EYES: Rinse opened eye for several minutes under running water. If symptoms persists, consult doctor

SKIN: Wash with soap and water. If skin irritation continues, consult doctor.

INGESTION: Rinse out mouth and then drink plenty of water; in case of persistent symptoms consult doctor

INHALATION: Supply fresh air; consult doctor in case of symptoms

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Immediately remove any contaminated clothing

SECTION 4 NOTES: Extracts contain alcohol.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) **LOWER:**

FLASH POINT:

F: 140

C: 60

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: 1

EXTINGUISHING MEDIA: Use fire fighting measures that suit the environment

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: Can form explosive vapor-air mixture

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide and Carbon Monoxide formed

SECTION 5 NOTES: Cool endangered containers with water spray jet. Dispose of fire debris and contaminated fire fighting water in accordance with local regulations. If without risk, move drums with material away from dangerous area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Prevent material from reaching sewage system, holes and cellars. Do not allow entry into drainage systems or surface ground water. Ensure adequate ventilation. Absorb spill with liquid binding material and dispose of according to local regulations.

SECTION 6 NOTES: Avoid contact with spill, remove ignition sources, personnel must be trained to treat spills.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Ensure good ventilation. Restrict quantity stored. Do not inhale vapor. Avoid product contact

OTHER PRECAUTIONS: Make sure that all applicable work place limits are observed.

SECTION 7 NOTES: Fumes can combine with air to form explosive mixtures. Store in a cool location. Protect against electrostatic charges. Keep ignition sources away. Protect from heat and direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Flammable liquid. Personnel trained to use and handle items only allowed to measure and pour.

VENTILATION : Provide air flow to prevent fume build up. Fumes are heavier than air.

RESPIRATORY PROTECTION: If all work place limits are observed and good ventilation is provide no special precautions.

EYE PROTECTION: Tightly sealed safety glasses

SKIN PROTECTION: Protective gloves to prevent skin contact

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No special precautions required.

WORK HYGIENIC PRACTICES: Protective clothing should be selected specially for the work place.

EXPOSURE GUIDELINES: Long term: 1920 mg/cubic meter , 1000 ppm

SECTION 8 NOTES: Contains ethanol (CAS: 64-17-5)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: opaque yellow paste

ODOR: characteristic lemon aroma

PHYSICAL STATE: liquid

pH AS SUPPLIED: 4.5 - 4.8

pH (Other):

BOILING POINT:

F: 173 -212

C: 78 -100C

MELTING POINT: not determined

F:

C:

FREEZING POINT: not determined

F:

C:

VAPOR PRESSURE (mmHg): not determined

@

F:

C:

VAPOR DENSITY (AIR = 1): 60 hPa

@

F:

C: 20

SPECIFIC GRAVITY (H2O = 1): 1.220 -1.250

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F: 70

C: 20

EVAPORATION RATE: not determined

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Almost fully miscible, small particulates remain

PERCENT SOLIDS BY WEIGHT: 45-55 %

PERCENT VOLATILE: 45-55%

VOLATILE ORGANIC COMPOUNDS (VOC): 20%

VISCOSITY: 5000 cps

SECTION 9 NOTES: Product is not self igniting. Product is not explosive, however, formation of explosive air/vapor mixtures is possible.

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

Yes

STABILITY:

CONDITIONS TO AVOID (STABILITY): Avoid impact, heat, sparks and electrostatic charges.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide and Carbon Dioxide

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES: Used empty containers may contain product gases which form explosive mixtures.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Long lasting and/or repeated skin contact may cause irritation. Eye contact can cause irritation.

SECTION 11 NOTES: No sensitizing effect known

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Water hazard class 1 (self assessment) : slightly hazardous for water

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal must be made according to local regulations.

Product contains ethanol, waste disposal must be made according to official regulations.

SECTION 13 NOTES: Disposal is recommended by licensed waste disposal firm.

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Extracts, Flavoring Liquid
HAZARD CLASS: 3
ID NUMBER: UN1197
PACKING GROUP: III
LABEL STATEMENT: None

WATER TRANSPORTATION

PROPER SHIPPING NAME: Extracts, Flavoring, Liquid
HAZARD CLASS: 3
ID NUMBER: 1197
PACKING GROUP: III
LABEL STATEMENTS: None

AIR TRANSPORTATION

PROPER SHIPPING NAME: Extracts, Flavoring , Liquid
HAZARD CLASS: 3
ID NUMBER: 1197
PACKING GROUP: III
LABEL STATEMENTS: IATA

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

Designation according to EC guidelines: Product classified and labeled in accordance with EC Directives and relevant national law.

Risk phrases: 10 Flammable

Safety Phrases': 7- keep container tightly closed; 16- Keep away from sources of ignition- no smoking.

Decree to be applied in case of technical fault: Quantity limits according to " EC Sereso directive" should be observed.

SECTION 15 NOTES:

Information about limitations of use: Employment restrictions concerning young person's must be observed.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Product has highly flammable ingredients that does not represent the classification of the preparation.

PREPARATION INFORMATION: 18 June 2018

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DISCLAIMER: These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.