



The NutraSweet Company

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Neotame Date: 01/31/2007
CHEMICAL NAME: N-[N-(3,3-dimethylbutyl)-L-a-aspartyl]-L-phenylalanine 1-methyl ester
SYNONYMS: NC-00723

The NutraSweet Company, 1762 Lovers Lane, PO Box 2387, Augusta, GA 30903

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT
Call CHEMTREC - Day or Night - 1-800-424-9300 Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands. For calls originating elsewhere: 706-303-5555 (collect calls accepted)

For additional non-emergency information, call:706-303-5654

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>% by weight</u>
N-[N-(3,3-dimethylbutyl)-L-a-aspartyl]-L-phenylalanine 1-methyl ester	165450-17-9	100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: white powder with no odor

WARNING! COMBUSTIBLE DUST

LIKELY ROUTES OF EXPOSURE: skin contact and inhalation

EYE CONTACT: No more than slightly irritating based on toxicity studies. The dry powder may cause foreign body irritation in some individuals.

SKIN CONTACT: No more than slightly irritating based on toxicity studies. Prolonged contact with the dry powder may cause drying or chapping of the skin.

INHALATION: Inhalation of the dust may cause coughing and sneezing.

INGESTION: Not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, immediate first aid is not likely to be required. However, this material can be removed with water. Wash heavily contaminated clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air. Remove material from eyes, skin and clothing.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

FLASH POINT: not applicable

HAZARDOUS PRODUCTS OF COMBUSTION: carbon monoxide, carbon dioxide and oxides of nitrogen

EXTINGUISHING MEDIA: In case of fire, use water, dry chemical, CO₂, or alcohol foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material as normally packaged and handled can contain sufficient fines to form an explosive mixture if dispersed in a sufficient quantity of air.

FIRE FIGHTING EQUIPMENT: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

In case of spill, do not blow material. Sweep, scoop or vacuum and remove. Use vacuum equipment designated specifically for handling combustible dusts.

Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

7. HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

Keep away from heat, sparks and flame. Avoid creating dust cloud in handling transfer and clean up.

STORAGE TEMPERATURE (Minimum/Maximum): 15 degrees C/30 degrees C

SHELF LIFE: 5 years

SPECIAL SENSITIVITY: Can pick up undesirable odors

PRECAUTIONS: Store between 35-60% relative humidity. Avoid high heat and store under dry conditions. Keep container tightly closed and inner bag sealed. Keep away from sources of odors.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eye Protection:** This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.
- Skin Protection:** Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.
- Respiratory Protection:** Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type equipment for given application. Observer respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.
- Ventilation:** Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilations is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

Airborne Exposure Limits:

OSHA AND ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) respectively, which are the least stringent exposure limits applicable to dusts.

OSHA PEL	ACGIH TLV
15 mg/m ³ (total dust) 8-hr TWA	10 mg/m ³ (inhalable) 8-hr TWA
5 mg/m ³ (respirable) 8-hr TWA	3 mg/m ³ (respirable) 8-hr TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula:	C ₂₀ H ₃₀ N ₂ O ₅ – H ₂ O
Molecular Weight:	396.48
Appearance:	white powder
Odor:	none
Melting Point	80-83 Degrees C

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of storage and handling

MATERIALS TO AVOID: strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION: will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity studies conducted by The NutraSweet Company with neotame.

In rabbits, eye irritation as well as moderate skin irritation was observed following a single exposure to neotame. Skin sensitization was not observed in guinea pigs following repeated skin exposure using the closed patch technique.

ADDITIONAL TOXICITY STUDIES DONE WITH NEOTAME:

There were no neotame-related deaths or adverse effects observed following repeated neotame exposures (13 weeks) in the feed for rats, mice and dogs at doses up to 3000, 8000 and 1200 mg/kg body weight/day, respectively. There were no neotame-related adverse effects observed in the 1-year feeding studies in rats or dogs. No neotame-related effects were observed with long-term (2 year) feeding of neotame to mice and rats with exposure *in utero* (i.e., animals were exposed from the time of conception in the mother's womb followed by a 2-year exposure after birth). Decreased body weight gains were observed in these studies. The decreased weight gain in these studies was due to reduced food consumption related to the highly intense taste of neotame and was not considered adverse. Neotame did not produce tumors in any of these studies. No birth defects were observed in rats and rabbits when dosed orally during pregnancy. Neotame was fed continuously to rats for 2 successive generations. No treatment-related effects were seen on the ability of male and female rats to reproduce and no effects were observed on offspring development or growth. Neotame produced no genetic changes in a number of standard tests using mice and mammalian or bacterial cells.

EXPERIENCE WITH HUMAN EXPOSURE:

There were no neotame-related observations or findings when males and females were continuously exposed in studies for up to 13-weeks.

12. ECOLOGICAL INFORMATION

The NutraSweet Company has not conducted environmental toxicity studies with this product.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of by incineration or recycle in accordance with local, state or federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.
