The NutraSweet Company

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NutraSweet® Brand Sweetener (powder or granule) Date: 01/30/07

CHEMICAL NAME: Alpha-L-Aspartyl-L-Phenylalanine Methyl Ester

SYNONYMS: Aspartame

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

Component	CAS No.	% by weight
Aspartame	22839-47-0	100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: white crystalline powder or granular with no odor

WARNING!
COMBUSTIBLE DUST

POTENTIAL HEALTH EFFECTS

LIKELY ROUTES OF EXPOSURE: skin contact and inhalation

EYE CONTACT: No more than slightly irritating based on worker experience

SKIN CONTACT: No more than slightly toxic based on toxicity studies and worker experience.

INHALATION: No more than slightly toxic based on toxicity studies.

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 based on available information.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: phenylketonuria (PKU)

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 dioxide, carbon monoxide and trace amounts of 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. Use vacuum equipment designed specifically for handling combustible dusts. Flush residual spill area with water.

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 flam. Avoid creating dust cloud in handling transfer and clean up.

STORAGE: Avoid high heat and store under dry conditions. Keep container tightly closed and inner bag sealed.

SHELF LIFE: Five years at ambient room temperature storage conditions (typically 15 degrees C to 30 degrees C; 35% to 60% relative humidity) when properly stored.

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: This product is not likely to present an airborne exposure concern under normal use. Use NIOSH approved respiratory protection equipment if needed for dust exposure during unusual handling conditions. Consult the respiratory manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH 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 ventilation 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/m2 (total dust) 8-hour TWA	10 mg/m3 (inhalable) 8-hour TWA
5 mg/m3 (respirable) 8-hour TWA	3 mg/m3 (respirable) 8-hour TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula:	C14H18O5N2
Molecular Weight:	294.3
Appearance:	white crystalline powder or granule
Odor:	odorless
Taste:	sweet
pH (as a 0.8% solution):	4.5 and 6.0
Solubility in Water:	sparingly
Solubility in Alcohol:	slightly

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: Five years at ambient room temperature storage conditions (typically 15 degrees C to 30 degrees C; 35% to 60% relative humidity) when properly stored. DKP (diketopiperazine) is a typical decomposition product of aspartame.

MATERIALS TO AVOID: strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: will not occur

11. TOXICOLOGICAL INFORMATION

Data from laboratory studies conducted by The NutraSweet Company and from the scientific literature with this material are summarized.

A vast database exists regarding the safety of aspartame in man. Oral doses of 75 mg/kg/day to human subjects for 6 months did not produce any clinical signs. The Acceptable Daily intake (ADI) approved by the U.S. Food and Drug Administration (FDA) is 50 mg/kg/day. The oral LD50 in rats is >5000 mg/kg (practically nontoxic). Inhalation exposure of male and female rhesus monkeys to aspartame at concentrations up to 16 mg/m3, 6 hours per day for 14 consecutive days, did not produce any consistent treatment related effects.

12. ECOLOGICAL INFORMATION

The NutraSweet Company has not conducted environmental toxicity and biodegradation tests with this material. However, biodegradation studies reported in the literature suggest that this material would meet the OECD guidelines for classification as “readily biodegradable”.

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 and 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.

15. REGULATORY INFORMATION

TSCA INVENTORY: listed

SARA HAZARD NOTIFICATION
- Hazard Categories Under Title III Rules (40 CFR 370): not applicable
- Section 302 Extremely Hazardous Substances: not applicable
- Section 313 Toxic Chemical(s): not applicable

CERCLA REPORTABLE QUANTITY: not applicable

Refer to Section 11 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

Reason for revision: New format Supersedes MSDS dated 11/20/00

NutraSweet® is a registered trademark of The NutraSweet Company

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, The NutraSweet Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will The NutraSweet Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.