SAFETY DATA SHEET

Preparation Date: 7/27/2015 Revision date 5/7/2019 **Revision Number: G3** 1. IDENTIFICATION Product identifier **Product code:** A1377 **Product Name:** ASPARTAME, POWDER, FCC Other means of identification Succinamic acid, 3-amino-N-(alpha-carboxyphenethyl)-, N-methyl ester, Synonyms: stereoisomer 3-Amino-N-(alpha-carboxyphenethyl) succinamic acid N-methyl ester, stereoisomer Aspartylphenylalanine methyl ester N-L-alpha Aspartyl-L-phenlalanine 1-methyl ester Nutrasweet L-Phenylalanine, N-L-alpha-aspartyl, 1-methyl ester Equal Methyl aspartylphenylalanate 1-Methyl N-L-alpha-aspartyl-L-phenylalanine CAS #: 22839-47-0 WM3407000 RTECS# Not available CI#: Recommended use of the chemical and restrictions on use Recommended use: Sweetener. Laboratory chemicals. Research and Development. Uses advised against No information available Supplier: Jiangsu Khonor Chemicals Co., Limited 2. HAZARDS IDENTIFICATION Classification This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Label elements Not classified

Product code: A1377 Product name: ASPARTAME, Page 1/11
POWDER, FCC

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Aspartame	22839-47-0	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause gastrointestinal disturbances

May cause digestive (gastrointestinal) tract irritation

Abdominal pain

May cause nausea and headache

May cause diarrhea
It may affect the brain

Central nervous system effects Central nervous system depression May cause drowsiness or dizziness

Headache Confusion Anxiety Irritability Insomnia

May affect behavior/central nervous system (convulsions, tremors, aggression)

Slurred speech

May cause personality and mood changes May affect the cardiovascular system

May affect the liver It may affect the kidneys May cause tinnitus Hearing impairment

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May affect eyes/vision

Paresthesia (numbness and tingling of the extremities)

May cause hyperactivity and restless legs

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx).

Specific hazards May be combustible at high temperatures. Fire may

produce irritating and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin,

eyes and clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when

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handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep in a dry, well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Aspartame	22839-47-0	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Aspartame	22839-47-0	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Aspartame	22839-47-0	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields. or Goggles

Skin and body protection: apron

Long sleeved clothing

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Gloves

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

Wear suitable gloves and eye/face protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidPowder.White.

Odor:TasteFormulaOdorless.Sweet.C14H18N2O5

Molecular/Formula weight (g/mole): Flammability (solid, gas)

Flashpoint (°C/°F):

294.31 g/mol no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 246-250 °C/474.8-482 °F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3): >300°C/572°F at 760 mmHg (1013.25 150-500 kg/m³ No information available

hPa) (with decomposition)

Specific gravity: pH Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Soluble in hot water

Partially soluble in cold water Slightly soluble in alcohol

Very slightly soluble in chloroform

10. STABILITY AND REACTIVITY

Reactivity

May react with strong oxidizers

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

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Conditions to avoid: Heat. Avoid dust formation. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Hazardous decomposition Carbon oxides. Nitrogen oxides (NOx).

products:

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Aspartame		
CAS No	22839-47-	0

LD50/oral/rat = > 10 g/kg Oral LD50 Rat

LD50/oral/mouse = >10 g/kg oral LD50 mouse

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = > 10000 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = >10000 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

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VALUE - Gas = No information available **VALUE - Dust/Mist =** No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Ingestion of large amounts may cause gastrointestnal tract irritation. May cause

gastrointestinal disturbances. May cause abdominal pain. May cause nausea. May

cause diarrhea. May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (tremor, insomnia, drowsiness). May affect behavior/central nervous system (confusion, irritability, tremor). May cause migraine headaches. May also cause anxiety and stress. May affect behavior/central nervous system (convulsions, seizures). May affect the cardiovascular system (palpitations). May affect the cardiovascular system (tachycardia). May affect the cardiovascular system (cardiac arrhythmias). May cause tinnitus. May cause decreased hearing or hearing loss. May cause vision

disturbances. May cause blurred or foggy vision.

Ingestion: May cause allergic dermatitis with angiodema (skin swelling), hives. Single

ingestions of less than 10 grams are unlikely to produce symptoms unless the

person has Phenylketonuria.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or

repeated ingestion may affect the brain. Prolonged or repeated ingestion may cause paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)).

Sensitization: No information available.

Mutagenic Effects: Cytogenic Analysis: human lymphocyte

Experiments with human lymphocytes have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic.

	Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Aspa	rtame	22839-47-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

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Developmental Effects:No information available **Teratogenic Effects:**No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Aspartame - 22839-47-0

Fish 23 mg/kg oral LDLo zebra fish

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Aspartame	22839-47-0	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

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TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
No information available

Response

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Aspartame	22839-47-0	PresentACTIV E	Not present	Present	Present (9)-1616	Present	Present	Present 245-261-3

U.S. Regulations

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Aspartame

FDA - Direct Food Additives 21 CFR 172.804

FDA - 21 CFR - Total Food Additives 172.804

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Aspartame	22839-47-0	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
- 1	Aspartame	22839-47-0	None	None	None	None	None

U.S. TSCA

С	omponent		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
A:	spartame	22839-47-0	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Aspartame	22839-47-0	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances	
Aspartame	22839-47-0	Not listed	
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting	
Aspartame	22839-47-0	Not listed	

EU Classification

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EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Aspartame	22839-47-0	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
Aspartame	22839-47-0		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date: 7/27/2015
Revision date 5/7/2019
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular

purpose.

End of Safety Data Sheet

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