



Wuhan Xinru Chemical Industry Co., Ltd

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MATERIAL SAFETY DATA SHEET

Product Identification

【Product Name】 Aspartame

【Synonyms】

3-Amino-n-(alpha-methoxycarbonylphenethyl) succinamic acid; APM;
Canderel; Equal; Methyl n-L-alpha-Aspartyl-L-Phenylalaninate;
NutraSweet

【CAS】 22839-47-0

【Formula】 C₁₄H₁₈N₂O₅

【Molecular Weight】 294.31

【EINECS】 245-261-3

【RTECS】 WM3407000

【RTECS Class】 Tumorigen; Reproductive Effector; Human Data

【Merck】 12,874

【Beilstein/Gmelin】 2223850

Physical and Chemical Properties

【Appearance】 Odorless, white powder.

【Solubility in water】 18.2 g/L

【Melting Point】 248 - 249

【Usage】 Sweetening agent about 200 times as sweet as sugar.

【Vapor Density】 10.1

First Aid Measures



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【Ingestion】

Wash mouth out with water. Get medical aid if irritation or symptoms occur.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

【Skin】

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Handling and Storage

【Storage】

Store in a cool, dry place. Keep container closed when not in use. No special precautions indicated.

【Handling】

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Hazards Identification

【Inhalation】

Low hazard for usual industrial handling. May cause respiratory tract irritation.

【Skin】 May cause skin irritation.

【Eyes】 May cause eye irritation.

【Ingestion】



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May cause irritation of the digestive tract. Low hazard for usual industrial handling. Ingestion of large amounts may cause gastrointestinal disturbances, headache, fever, dizziness, urticaria, folliculitis and conjunctivitis.

Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.

【Respirators】

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

【Exposure Effects】

Reproductive effects have been reported in animals.

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire. For small fires, use dry chemical, carbon dioxide, water spray or regular foam.

【Upper exp. limit】 17.5

【Lower exp. limit】 3

Accidental Release Measures

【Small spills/leaks】

Clean up spills immediately, using the appropriate protective equipment. Sweep up or absorb material, then place into a suitable clean, dry, closed container for



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disposal. Avoid generating dusty conditions. Provide ventilation.

Stability and Reactivity

【Stability】 Stable under normal temperatures and pressures.

【Incompatibilities】 Strong oxidizing agents.

【Decomposition】

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.