

SAFETY DATA SHEET

+1 703-527-3887

1. Identification

Product identifier	Alitame-Alanine Amide Impurity		
Other means of identification			
Catalog number	1012859		
Chemical name	N-(2,2,4,4-tetramthyl-3-thietan	yl)-D-alanimamide	
Recommended use	Specified quality tests and ass	Specified quality tests and assay use only.	
Recommended restrictions	Not for use as a drug. Not for administration to humans or animals.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	U. S. Pharmacopeia		
Address	12601 Twinbrook Parkway		
	Rockville		
	MD		
	20852-1790		
	United States		
Telephone	RS Technical Services	301-816-8129	
Website	www.usp.org		
E-mail	RSTECH@usp.org		
Emergency phone number	CHEMTREC within US & Canada	1-800-424-9300	

CHEMTREC outside US &

Canada

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substance			
Chemical name	Common name and synonyms	CAS number	%
Alitame-Alanine Amide Impurity		80875-07-6	100

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

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Most important symptoms/effects, acute and delayed	None known.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal

For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin

Store in tight container as defined in the USP-NF. This material should be handled and stored per

Airborne exposure should be controlled primarily by engineering controls such as general dilution

ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally

recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Safety glasses with sideshields are recommended. Face shields or goggles may be required if

splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing

Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact.

Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex

preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials.

Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is

the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

protection, see section 8 of the SDS.

thoroughly to remove residual contamination.

label instructions to ensure product integrity.

No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for

Environmental precautions

7. Handling and storage Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

Occupational exposure limits

Biological limit values

controls

Appropriate engineering

Eye/face protection

Hand protection

Skin protection

8. Exposure controls/personal protection

containment and cleaning up

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Individual protection measures, such as personal protective equipment

thoroughly.

Other	For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
Respiratory protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

-	-
Appearance	
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	C10H20N2OS
Molecular weight	216.34

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx. SOx.

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Knowledge about health hazard is incomplete.	
Skin contact	Knowledge about health hazard is incomplete.	
Eye contact	Knowledge about health hazard is incomplete.	

Ingestion	Knowledge about health hazard is incomplete.
Symptoms related to the physical, chemical, and toxicological characteristics	Not available.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Knowledge about health hazard is incomplete.
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.
Respiratory or skin sensitization	
Respiratory sensitization	Knowledge about health hazard is incomplete.
Skin sensitization	Knowledge about health hazard is incomplete.
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.
Carcinogenicity	Knowledge about carcinogenicity is incomplete.
IARC Monographs. Overall E Not listed.	Evaluation of Carcinogenicity
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)
Not regulated. US. National Toxicology Pro Not listed.	gram (NTP) Report on Carcinogens
Reproductive toxicity	Knowledge about health hazard is incomplete.
Specific target organ toxicity -	Knowledge about health hazard is incomplete.
single exposure	
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideration	ns
Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
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Contaminated packaging

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

General information

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Not applicable.

15. Regulatory informatio	n	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined b Communication Standard, 29 CFR 1910.1200.	y the OSHA Hazard
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa Not listed.	ance List (40 CFR 302.4)	
SARA 304 Emergency relea	ase notification	
Not regulated.		
OSHA Specifically Regulate Not regulated.	ed Substances (29 CFR 1910.1001-1050)	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazar Not listed.	dous substance	
SARA 311/312 Hazardous chemical	Νο	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List	
	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
•	ubstances. CA Department of Justice (California Health and Safety	Code Section 11100)
Not listed.		
US. Massachusetts RTK - S	Substance List	
-	d Community Right-to-Know Act	
Not listed. US. Pennsylvania RTK - Ha	zardous Substances	
Not regulated. US. Pennsylvania Worker a Not listed.	nd Community Right-to-Know Law	
US. Rhode Island RTK		
Not regulated.		
	65 Water and Toxic Enforcement Act of 1986 (Proposition 65): This materia listed as carcinogens or reproductive toxins.	Il is not known to contain
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada China	Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical	No
	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

Existing Chemicals List (ECL)

Korea

No

No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

herein.

Issue date	05-30-2012
Revision date	07-29-2016
Version #	02
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