

L-ASPARAGINE:H2O (13C4, 99%)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 22/01/2019 Date of issue: 20/02/2013 Supersedes: 20/04/2016

CLM-8699-H

Version: 2.1

	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: L-ASPARAGINE:H2O (13C4, 99%)	
EC-No.	: 200-735-9 (Unlabeled)	
CAS-No.	: 5794-13-8 (Unlabeled)	
Product code	: CLM-8699-H	
Formula	: NH2*CO*CH2*CH(NH2)*CO2H·H2O	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the se	afety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road		
Andover, MA 01810		
USA		
USA: 1-800-322-1174 Int: 1-978-749-8000		
cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours)		
International: 1-703-741-5970 (24 hours)		
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SECTION 2: Hazards identificati		
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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

Other hazards 2.3.

No additional information available

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SECTION 3: Composition/Information on ingredients 3.1. Substances			
			Name
L-ASPARAGINE:H2O (13C4, 99%)	(CAS-No.) 5794-13-8 (Unlabeled) (EC-No.) 200-735-9 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ASPARAGINE:H2O (13C4, 99%)	(CAS-No.) 5794-13-8 (Unlabeled) (EC-No.) 200-735-9 (Unlabeled)	100	Not classified

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
L-ASPARAGINE:H2O (13C4, 99%) (Main constituent)	(CAS-No.) 5794-13-8 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

Mixtures 3.2 No

3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.	
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.	
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.	
4.2. Most important symptoms and effect	cts, both acute and delayed	
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.	
Symptoms/effects after eye contact	: May cause eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	
4.3. Indication of any immediate medica	I attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).	
5.2. Special hazards arising from the su	bstance or mixture	
No additional information available		
5.3. Advice for firefighters		
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.	

SECTI	SECTION 6: Accidental release measures	
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1. Emerge	For non-emergency personnel ncy procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.
6.1.2.	For emergency responders	
Protectiv	/e equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
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Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

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6.3. Methods and material for contain	nent and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, include	ding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
	construction
SECTION 8: Exposure controls/per	
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.
SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 154.1 g/mol (Labeled)
Color	: White
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 233 - 235 °C (451 - 455 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available

Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Relative density : 1.6 g/cm3 : Water: 100 %

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Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. **Other information**

No additional information available	
SECTION 10: Stability and reactivi	ity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Five years after receipt if stored as stated in "	Storage" section. Re-QC after 5 years.
10.3. Possibility of hazardous reaction	S
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition produ	cts
Formed under fire conditions: Carbon oxides,	nitrogen oxides (NOx).
SECTION 11: Toxicological inform	nation
11.1. Information on toxicological effective	cts
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified

Reproductive toxicity Specific target organ toxicity – single exposure	-	Not available Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Potential Adverse human health effects and symptoms	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	:	May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	:	May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	:	May cause eye irritation.
Symptoms/effects after ingestion	:	May be harmful if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability		
L-ASPARAGINE:H2O (13C4, 99%) (5794-13-8 (Unlabeled))		
Persistence and degradability	Not available.	

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12.3. Bioaccumulative potential		
L-ASPARAGINE:H2O (13C4, 99%) (5794-13-8 (Unlabeled))		
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
L-ASPARAGINE:H2O (13C4, 99%) (5794-13-8	(Unlabeled))	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessmen	t	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	
SECTION 13: Disposal considerations	S	
13.1. Waste treatment methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.	
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	: Dispose of as unused product.	
Not applicable UN proper shipping name Not applicable		
14.3. Additional information		
Other information	: No supplementary information available.	
Special transport precautions	: Not dangerous goods.	
Overland transport No additional information available		
Transport by sea No additional information available		
Air transport No additional information available		
14.4. Environmental hazards		
	: No supplementary information available.	
14.5. Special precautions for user		
	: Not dangerous goods.	
14.6. Transport in bulk according to Annex	II of MARPOL 73/78 and the IBC Code	

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
L-ASPARAGINE:H2O (13C4, 99%) (5794-13-8 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

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15.2. International regulations

CANADA

L-ASPARAGINE:H2O (13C4, 99%) (5794-13-8 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List)

National regulations 15.2.1.

No additional information available

15.3. US State regulations

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-ASPARAGINE:H2O (13C4, 99%)(5794-13-8 (Unlabeled))	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	 O - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product