

### 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

Date of issue: 31/01/2011 DLM-6038 Revision date: 22/09/2021

Supersedes: 25/09/2018

Version: 3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance L-ARGININE:HCL (<5% D) (4,4,5,5-D4, 97%) Substance name EC-No. : 214-275-1 (Unlabeled) CAS-No. : 1119-34-2 (Unlabeled) Product code : DLM-6038 Formula : H2NC(NH)NHCD2CD2CH2CH(NH2)COOH+HCI : (S)-(+)-Arginine / S-(+)-2-Amino-5[(aminoiminomethyl)amino]pentanoic acid Synonyms 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses : Professional use Main use category Industrial/Professional use spec : For professional use only 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. 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) **SECTION 2: Hazards identification** Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 H315 Eye Irrit. 2 H319 Full text of hazard classes and H-statements : see section 16 Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xi; R36/38 Full text of R-phrases: see section 16

GHS-US classification Skin Irrit. 2 H315 Eye Irrit. 2A H319 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.2. Label elements	
Labeling according to Regulation (EC) No. 1	1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	<ul> <li>P264 - Wash Both hands thoroughly after handling.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> </ul>
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	<ul> <li>P264 - Wash both hands thoroughly after handling.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> </ul>

#### **Other hazards** 2.3.

#### No additional information available

## SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-ARGININE:HCL (<5% D)(4,4,5,5-D4,97%)	(CAS-No.) 1119-34-2 (Unlabeled) (EC-No.) 214-275-1 (Unlabeled)	100	Xi; R36/38
Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]

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

Name	Product identifier	%	GHS-US classification
L-ARGININE:HCL (<5% D) (4,4,5,5-D4,97%) (Main constituent)	(CAS-No.) 1119-34-2 (Unlabeled)	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

#### **Mixtures** 3.2.

Not applicable

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	<ul> <li>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</li> </ul>
First-aid measures after eye contact	: Flush eye with water for 15 minutes. Get medical attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medical a	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the subs	stance or mixture
Reactivity	: Not available.
5.3. Advice for firefighters	
Firefighting instructions	: Wear a self contained breathing apparatus.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	Ires
6.1. Personal precautions, protective equi	
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SECTION 8: Exposure controls/personal protection

8.1.

**Control parameters** 

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous
Respiratory protection	substance at the work place. When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Crystalline
Molecular mass	: 214.68 g/mol (Labeled)
Color	: Colorless. white
Odor	: Odourless
Odor threshold	: No data available
рН	: 5.5 - 7 at 211 g/l at 25 °C (77 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 226 - 230 °C (439 - 446 °F)
Freezing point	: No data available
Boiling point	: 235 °C (455 °F) at ca. 1,013 hPa (760 mmHg) - Decomposes on heating.
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
Relative vapor density at 20 °C	No data available
Relative density	: 1.42 g/cm3 at 20 °C (68 °F)
Solubility	: Water: 211 g/l at 20 °C (68 °F) - completely soluble
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 reactivit	y .
10.1. Reactivity	
Not available.	
10.2. Chemical stability	
Five years after receipt if stored as stated in "S	
10.3. Possibility of hazardous reactions	
No additional information available	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials		
Strong oxidizing agnets.		
10.6. Hazardous decomposition products		
Under fire conditions: Carbon oxides, nitrogen ox	ides, Hydrogen chloride gas.	
SECTION 11: Toxicological informati	ion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
L-ARGININE:HCL (<5% D) (4,4,5,5-D4, 97%)	(1119-34-2 (Unlabeled))	
LD50 oral rat	12400 mg/kg	
ATE CLP (oral)	12000.000 mg/kg body weight	
Skin corrosion/irritation	: Skin - Reconstructed human epidermis (RhE) Result: No skin irritation Irritating to skin.	
	pH: 5.5 - 7 at 211 g/l at 25 °C (77 °F)	
Serious eye damage/irritation	: Eyes - Rabbit Result: No eye irritation - 1 h	
	pH: 5.5 - 7 at 211 g/l at 25 °C (77 °F)	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity - single exposure	: 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 tract irritation.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	

SECTI	ON 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		
No addit	ional information available		
12.3.	Bioaccumulative potential		
No addit	ional information available		
12.4.	Mobility in soil		
No addit	ional information available		
12.5.	Results of PBT and vPvB assessmen	t	
No addit	ional information available		
12.6.	Other adverse effects		
Other ad	verse effects	:	Avoid release to the environment. Disposal must be done according to official regulations.
SECTI	ON 13: Disposal consideration	S	
13.1.	Waste treatment methods		
Regional	l 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.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / IMDG / IATA / A	
14.1. UN number	
Not applicable	
14.2. 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	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: 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-ARGININE:HCL (<5% D) (4,4,5,5-D4, 97%)	(1119-34-2 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	
15.2. International regulations		

#### CANADA

L-ARGININE:HCL (<5% D) (4,4,5,5-D4, 97%) (1119-34-2 (Unlabeled))	
Listed on the Canadian DSL (Domestic Substances List)	

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

L-ARGININE:HCL (<5% D) (4,4,5,5-D4, 97%)(1119-34-	2 (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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its am endment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 16: Other information**

#### Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation
R36/38	Irritating to eyes and skin
Xi	Irritant

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - 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	: 2 Moderate Hazard - Temporary or minor injury may occur
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