

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: 15/06/2011 Revision date: 14/05/2019 Supersedes: 05/12/2016 Version: 5.0 CLM-7563

1.2.1. Relevant identified uses Main use category : Professional use Industrial/Professional use spec : For professional use only 1.2.1. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Cambridge lootope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA USA Emergency telephone number Emergency numbers: Chemtres: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) SECTION 2: Hazards Identification 21. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified GHS-US classification CHS-US classification Kot classified CHS-US classification Kot classified CHS-US classification Kot classified CHS-US classification Kot classified	SECTION 4. Identification of the out	stance/withing and of the company/undertaking	
Product form : Substance Substance name : VITAMIN B6 (PYRIDOXINE.HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) EC-No : S9-56-0 (Unlabeled) CAS-No. : S9-56-0 (Unlabeled) CAS-No. : CU-VI-S63 Formula : C. 4'C-(4H1N03-HCl Synonyms : PN HCL / Ademine hydrochloride / Vitamin B6 hydrochloride 1.2. Relevant Identified uses Main use category : Professional use Industrial/Professional use spec : For professional use only 1.2.1. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Carbridge Isotope Laboratories, Inc. S0 Frontage Road Andover, MJ 01810 USA Homeser: Emergency telephone number Emergency telephone number Emergency telephone number SECTION 2: Hazards identification 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Not dassified Classification according to Directive 67/544/EEC (DSD) or 1999/45/EC (DPD) Not dassified Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Clas		stance/mixture and of the company/undertaking	
Substance name : VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) EC-No. : 200-386-2 (Unlabeled) CAS-No. : 58-66-0 (Unlabeled) Product code : CLM-7563 Formula : CA'C4H11N03-HCl Synonyms : PN HCL / Ademine hydrochloride / Vitamin B6 hydrochloride 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 safety data sheet Cambridge Isotope Laboratories, Inc. 50 Frontage Read Andover, MA 01810 USA: 1-800-322-1174 Int: 1-978-749-8000 citable's Bisotope.com Emergency tuelphone number Emergency tuelphone number Emergency tuelphone number 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Cassification according to Directive 67/54&/EEC [DSD] or 1999/45/EC [DPD] Not classified Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification Chessification		: Substance	
EC-No. : 200-386-2 (Unlabeled) CAS-No. : 58-56-0 (Unlabeled) Product code : C.M7563 Formula : C4*C4H11N03-HCI Synonyms : PN HCL / Ademine hydrochloride / Vitamin B6 hydrochloride 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 safety data sheet Cambridge lostope Laboratories, Inc. S0 Frontage Road Andover, MA 01810 USA: 1-800-322-1174 Int: 1-978-749-8000 citasles@isotope.com www.isotope.com Emergency telephone number Entergency telephone number Entergency numbers: Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5377 (24 hours) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification acording to Directive 67/548/EEC [DSD] or 199945/EC [DPD] Not classified Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification Classification			
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Not classified GHS-US classification Not classified			
Not classified			
Adverse physicochemical, human health and environmental effects No additional information available			
2.2. Label elements	2.2. Label elements		

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

GHS-US labeling

No labeling applicable

99%) CLM-7563

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

2.3. Other hazards

No additional information available

.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
VITAMIN B6 (PYRIDOXINE:HCL) (4,5- BIS(HYDROXYMETHYL)-13C4, 99%)	(CAS-No.) 58-56-0 (Unlabeled) (EC-No.) 200-386-2 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
VITAMIN B6 (PYRIDOXINE:HCL) (4,5- BIS(HYDROXYMETHYL)-13C4, 99%)	(CAS-No.) 58-56-0 (Unlabeled) (EC-No.) 200-386-2 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
VITAMIN B6 (PYRIDOXINE:HCL) (4,5- BIS(HYDROXYMETHYL)-13C4, 99%) (Main constituent)	(CAS-No.) 58-56-0 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.		
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	: Wash with soap and plenty of water. Consult a physician.		
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
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 effect	s, both acute and delayed		
Symptoms/effects	: Not available.		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.		
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin 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 medical attention and special treatment needed			
No additional information available	attention and special reatment needed		
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 sub	stance or mixture		
No additional information available			
5.3. Advice for firefighters			
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			

Emergency procedures

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

99%) CLM-7563

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

26, 2012 / Rules and Regulations	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent further leakage or spillage if safe to	o do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Additional hazards when processed	 Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Keep container tightly closed in a dry and well-ventilated place.
Storage conditions	: Store in freezer (-80°C). Protect from light, air and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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 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 substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 209.61 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	: 214 - 215 °C (417 - 419 °F)
Freezing point	: No data available
Boiling point	: No data available
51	

99%) CLM-7563

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

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	: No data available
Solubility	: Water: 220 g/l at 20 °C (68 °F)
Log Pow	 -0.871 The preceding data or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.
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 reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Two years after receipt of order if stored as above. Re-QC after two years.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
No additional information available			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Carbon oxides (CO, CO2). Nitrogen oxides. Hydrogen chloride gas.			
SECTION 11: Toxicological information			

11.1. Information on toxicological	effects
Acute toxicity	: Not classified
VITAMIN B6 (PYRIDOXINE:HCL) (4,5-	-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled))
LD50 oral rat	4000 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Excitement.
ATE CLP (oral)	4000.000 mg/kg body weight
Skin corrosion/irritation	: Skin - in vitro assay. Result: No skin irritation. (EPISKIN Human Skin Model Test)
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

: Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified exposure Aspiration hazard : Not classified Potential Adverse human health effects and : 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 symptoms construed as guaranteeing any specific property of the product. : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/effects after inhalation

99%) CLM-7563

Safety Data Sheet

SECTION 12: Ecological information

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

Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) EC50 other aquatic organisms 1 5.3 mg/l Desmodesmus subspicatus (Scenedesmus subspicatus) - 72 h (OECD Test Guideline 201) 12.2. Persistence and degradability VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) Biodegradation 94 % Readily biodegradable (OECD Test Guideline 301) 12.3. Bioaccumulative potential VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) Log Pow -0.871 The preceding data or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling. Bioaccumulative potential No bioaccumulation is to be expected (log Pow <= 4). 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment
EC50 other aquatic organisms 1 5.3 mg/l Desmodesmus subspicatus (Scenedesmus subspicatus) - 72 h (OECD Test Guideline 201) 12.2. Persistence and degradability VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) Biodegradation 94 % Readily biodegradable (OECD Test Guideline 301) 12.3. Bioaccumulative potential VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) 12.3. Bioaccumulative potential VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) 12.3. Bioaccumulative potential VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) Log Pow -0.871 The preceding data or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling. Bioaccumulative potential No bioaccumulation is to be expected (log Pow <= 4). 12.4. Mobility in soil No additional information available
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12.4. Mobility in soil No additional information available
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available
SECTION 13: Disposal considerations
13.1. Waste treatment methods
Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and loca 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.
SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN
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

99%) CLM-7563

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

14.4.	Environmental hazards	
Other in	formation	: 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

VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	

15.2. International regulations

CANADA

VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%) (58-56-0 (Unlabeled)) Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

VITAMIN B6 (PYRIDOXINE:HCL) (4,5-BIS(HYDROXYMETHYL)-13C4, 99%)(58-56-0 (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

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.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
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	: 1 Slight Hazard - Irritation or minor reversible injury possible
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