

UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV)

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: 23/01/2017 Revision date: 20/07/2021 Supersedes: 23/01/2017 Version: 1.1 NEX-UB1-ILV-P

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV)		
CAS-No.	: 79586-22-4 (Unlabeled)		
Product code	: NEX-UB1-ILV-P		
Formula	: NA		
Synonyms	: ATP-dependent proteolytic factor / Ub		
1.2. Relevant identified uses of the subs	tance 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 Road			
Andover, MA 01810 USA			
USA USA: 1-800-322-1174 Int: 1-978-749-8000			
<u>cilsales@isotope.com</u> 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			
2.1. Classification of the substance or m	ixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Not classified			
Classification according to Directive 67/548/E	EC [DSD] or 1999/45/EC [DPD]		
Not classified			
GHS-US classification			
Not classified			
Adverse physicochemical, human health and environmental effects			
No additional information available			
2.2. Label elements			
Labeling according to Regulation (EC) No. 12	72/2008 [CLP]		
No labeling applicable			
GHS-US labeling			
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No labeling applicable

2.3.	Other	hazards

No additional information available

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SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV)	(CAS-No.) 79586-22-4 (Unlabeled) (EC-No.) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV)	(CAS-No.) 79586-22-4 (Unlabeled) (EC-No.) (EC Index-No.)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV) (Main constituent)	(CAS-No.) 79586-22-4 (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	: Flush eyes with water as a precaution.
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	cts, both acute and delayed
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 medica	I 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 su	bstance 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 mea	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Do not let product enter drains.	
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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.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide appropriate exhaust ventilation at places where dust is formed.
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, include	ding 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/per	sonal 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
Demonstration	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 chemica	l properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Solid
Color	: Off-white. Light-Brown
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
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
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
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Solubility

: No data available

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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 reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Two years after receipt if stored as stated in "Sto	prage" section. Re-QC after 2 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 agent.	
10.6. Hazardous decomposition products	3
No additional information available	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
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	: 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.

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.

Persistence and degradability 12.2.

No additional information available

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12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
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	
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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		
UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV) (79586-22-4 (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.	

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15.2. International regulations

CANADA

UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C, 95%; D, 95%; 15N, 95%; 13CH3-ILV) (79586-22-4 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

UBIQUITIN (HUMAN) LYOPHOLIZED POWDER (13C,	95%; D, 95%; 15N, 95%; 13CH3-ILV) (79586-22-4 (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	: 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