

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /

Rules and Regulations

Revision date: 31/12/2015 Date of issue:

CNLM-3003

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

: POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% CHEMICAL PURITY Substance name

: 615-016-00-9 (Unlabeled) EC index no : 209-676-3 (Unlabeled) EC no CAS No : 590-28-3 (Unlabeled)

Product code : CNLM-3003 Formula : KO*C*N

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Industrial/Professional use spec : For professional use only.

Uses advised against 1.2.2.

No additional information available

Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22

Full text of R-phrases: see section 16

GHS-US classification

Aquatic Acute 3 H402

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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Signal word (CLP) : Warning

Hazard statements (CLP) H302 - Harmful if swallowed

Precautionary statements (CLP) P264 - Wash Both hands thoroughly after handling

P270 - Do no eat, drink or smoke when using this product

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container to Comply with applicable regulations.

GHS-US labelling

Hazard pictograms (GHS-US)



Hazard statements (GHS-US) : H402 - Harmful to aquatic life

Precautionary statements (GHS-US) P273 - Avoid release to the environment

P501 - Dispose of contents/container to Comply with applicable regulations.

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substances 3.1.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% CHEMICAL PURITY (Main constituent)	(CAS No) 590-28-3 (Unlabeled) (EC no) 209-676-3 (Unlabeled) (EC index no) 615-016-00-9 (Unlabeled)	100	Xn; R22
Name	Product identifier	%	Classification asserding to
Name	Product identifier	70	Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Name	Product identifier	%	GHS-US classification
POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% CHEMICAL PURITY	(CAS No) 590-28-3 (Unlabeled)	100	Aquatic Acute 3, H402
(Main constituent)			

Full text of H-phrases: see section 16

Mixture

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a First-aid measures after inhalation

physician.

First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eye with water for 15 minutes. Get medical attention. Never give anything by mouth to an

unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after inhalation : May be harmful if absorbed through skin. May cause skin irritation. Symptoms/injuries after skin contact

Symptoms/injuries after eye contact : Contact may cause eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

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4.3. Indication of any immediate medical 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 substance or mixture

No additional information available

5.3. Advice for firefighters

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 dust. Ensure adequate ventilation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For containment

: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where

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, including any incompatibilities

Storage conditions

: Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL : >=

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Respiratory protection of the dependent type.



Hand protection

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance

at the work place.

: protective gloves.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Crystalline.

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Molecular mass : 83.10 g/mol (labeled)

Colour : White.

Odour No data available Odour threshold : No data available : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point No data available Freezing point : No data available : No data available Boiling point : No data available Flash point No data available Self ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C No data available

Relative density : 2.056 g/mol at 25 °C (77 °F)

Solubility : No data available Log Pow No data available Log Kow No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties No data available Explosive 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

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Not available.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under fire conditions: Carbon oxides, nitrogen oxides, Potassium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% CHEMICAL PURITY (590-28-3 (Unlabeled))					
ATE (oral)	500.000 mg/kg bodyweight				
Skin corrosion/irritation	Not classified No data available				
Serious eye damage/irritation	Not classified				

No data available

Respiratory or skin sensitisation : Not available

No data available

Corm cell mutagenicity : Not available

Germ cell mutagenicity : Not available Carcinogenicity : Not classified

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Reproductive toxicity : Not available Specific target organ toxicity (single exposure) : Not classified

No data available

Specific target organ toxicity (repeated

exposure)

Not classifiedNo data available

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : Contact may cause eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

POTASSIUM CYANATE (13C, 99%; 15N, 98%)	95% CHEMICAL PURITY (590-28-3 (Unlabeled))
LC50 fishes 1	24.3 mg/l - 96 h, Oncorhynchus mykiss (rainbow trout) -

12.2. Persistence and degradability

POTASSIUM CYANATE (13C, 99%; 15N, 98%)	95% CHEMICAL PURITY (590-28-3 (Unlabeled))
Persistence and degradability	Not available.

12.3. Bioaccumulative potential

POTASSIUM CYANATE (13C, 99%; 15N, 98%)	95% CHEMICAL PURITY (590-28-3 (Unlabeled))
Bioaccumulative potential	Not available.

12.4. Mobility in soil

POTASSIUM CYANATE (13C, 99%; 15N, 98%)	95% CHEMICAL PURITY (590-28-3 (Unlabeled))
Ecology - soil	Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Not 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 Local

environmental control regulations.

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste disposal recommendations : Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

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 : DOT/IMDG/IATA: 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 : DOT/IMDG/IATA: 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

POTASSIUM CYANATE (13C, 99%: 15N, 98%) 95% CHEMICAL PURITY (590-28-3 (Unia	belec	Unlah	: (l	8-3	-28	590-	Y (!	IT۱	URI	P	:AI	-міс	CHE	95%	98%)	15N	99%-	13C	ΔTF /	ΔΝΔ	M C	TASSIU	PC	
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SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

15.2. International regulations

CANADA

POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% CHEMICAL PURITY (590-28-3 (Unlabeled))

Listed on the Canadian DSL (Domestic Sustances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

POTASSIUM CYANATE (13C, 99%; 15N, 98%) 95% (CHEMICAL PURITY(590-28-3 (Unlabeled))
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List
	U.S New Jersey - Right to Know Hazardous Substance List
	This product does not contain any chemicals known to State of California to cause cancer,
	birth defects, or any other reproductive harm.

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::

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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed
R22	Harmful if swallowed
Xn	Harmful

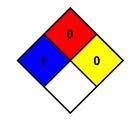
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



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HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture 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

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