

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

Date of issue: 11/05/2011

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Supersedes: 11/05/2011

Version: 3.0

DLM-7374

1.1. Product identifier	
Product form	: Substance
Substance name	: KYNURENIC ACID (RING-D5, 98%)
EC no	: 207-751-5 (Unlabeled)
CAS No	: 350820-13-2
Product code	: DLM-7374
Formula	: C10H2D5NO3
Synonyms	: 4-Hydroxyquinoline-2-carboxylic acid
1.2. Relevant identified uses of the sub	stance 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 safet	y data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000	
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50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000	
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50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> <u>Emergency telephone number</u> Emergency numbers:	

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

Skin Irrit. 2H315Eye Irrit. 2H319STOT SE 3H335

Full text of H-phrases: see section 16

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

Xi; R36/37/38 Full text of R-phrases: see section 16

Classification (GHS-US)

Skin Irrit. 2H315Eye Irrit. 2AH319STOT SE 3H335

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

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	ording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
2.2. Label elements	
Labeling according to Regulation (EC) No Hazard pictograms (CLP)	
Signal word (CLP)	GHS07 : Warning
Hazard statements (CLP)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water/ P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER/doctor//if you feel unwell
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 H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER/doctor/physician if you feel unwell P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to Comply with applicable regulations.
2.3. Other hazards	
2.3. Other hazards No additional information available	
SECTION 3: Composition/information	ation on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
KYNURENIC ACID (RING-D5, 98%) (Main constituent)	(CAS No) 350820-13-2 (EC no) 207-751-5 (Unlabeled)	100	Xi; R36/37/38
Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]

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

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

Name	Product identifier	%	Classification (GHS-US)
KYNURENIC ACID (RING-D5, 98%) (Main constituent)	(CAS No) 350820-13-2	100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measure	S
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 o	
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.
Symptoms/injuries after skin contact	: May be fatal if absorbed through skin. Causes skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed. Harmful if swallowed. May cause irritation of the digestive tract.
4.3. Indication of any immediate me No additional information available	dical attention and special treatment needed
SECTION 5: Firefighting measure	ès
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	e substance or mixture
Reactivity	: Not 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 n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for contain	inment 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 storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	 Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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ccording to Regulation (EC) No. 453/2010 and accord	ing to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
7.2. Conditions for safe storage, include	ding any incompatibilities
Fechnical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
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/per	sonal protection
3.1. Control parameters	
No additional information available	
3.2. 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.
land 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	: 194.2 g/mol (Labeled)
Color	: Beige.
Ddor	: No data available
Ddor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Aelting point	: 275 °C (527 °F) - dec.
reezing point	: No data available
Boiling point	: No data available
lash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
/apor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available

Other information No additional information available

9.2.

Log Pow

Log Kow

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Oxidizing properties

Explosive limits

: No data available

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
Not 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 agent.		
10.6. Hazardous decomposition products	3	
carbon oxides. Nitrogen oxides.		
SECTION 11: Toxicological informat	tion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Inhalation- May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
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. Causes respiratory tract irritation.	
Symptoms/injuries after skin contact	: May be fatal if absorbed through skin. Causes skin irritation.	
Symptoms/injuries after eye contact	: May cause eye irritation.	
Symptoms/injuries after ingestion	: May be harmful if swallowed. Harmful if swallowed. May cause irritation of the digestive tract.	

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
No addit	ional information available	
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 assessment	
No addit	ional information available	
12.6.	Other adverse effects	
No addit	ional information available	
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Regiona	legislation (waste) :	Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste di	sposal recommendations :	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport inform	mation
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	: 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.
Other information	
Other information 14.5. Special precautions for use Special transport precautions	
14.5. Special precautions for use Special transport precautions	er en
14.5. Special precautions for use Special transport precautions 14.6. Transport in bulk according	er : Not dangerous goods.
14.5. Special precautions for use Special transport precautions 14.6. Transport in bulk according Not applicable	er : Not dangerous goods. g to Annex II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for use Special transport precautions 14.6. Transport in bulk according Not applicable SECTION 15: Regulatory information	er : Not dangerous goods. g to Annex II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for use Special transport precautions	er : Not dangerous goods. g to Annex II of MARPOL 73/78 and the IBC Code rmation

15.2. International regulations

CANADA

KYNURENIC ACID (RING-D5, 98%) (350820-13-2)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

15.2.1. National regulations

No additional information available

15.3. US State regulations

KYNURENIC ACID (RING-D5, 98%)(350820-13-2)	
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

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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.

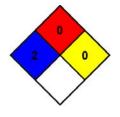
Full text of R-, H- and EUH-phrases::

	•	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Skin Irrit. 2	skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
R36/37/38	Irritating to eyes, respiratory system and skin	
Xi	Irritant	

NFPA health hazard

NFPA fire hazard NFPA reactivity

- : 2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	ΗМ	IS I	II Rating
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Health Flammability Physical : 2 Moderate Hazard - Temporary or minor injury may occur

- : 0 Minimal Hazard
- : 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