Section 1 - Product and Company Information

Product Name                       KYNURENIC ACID
Product Number                     K3375
Brand                              SIGMA
Company                            Sigma-Aldrich Canada, Ltd
Street Address                     2149 Winston Park Drive
City, State, Zip, Country          Oakville ON L6H 6J8 CA
Technical Phone:                   9058299500
Emergency Phone:                   800-424-9300
Fax:                               9058299292

Section 2 - Composition/Information on Ingredient

Substance Name                          CAS #                 SARA 313
4-HYDROXYQUINOLINE-2-CARBOXYLIC         492-27-3              No
ACIDHYDRATE, 98%

Formula                          C10H7NO3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
   Irritant.
   Irritating to eyes, respiratory system and skin.

HMIS RATING
   HEALTH: 2
   FLAMMABILITY: 0
   REACTIVITY: 0

NFPA RATING
   HEALTH: 2
   FLAMMABILITY: 0
   REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
   If swallowed, wash out mouth with water provided person is
   conscious. Call a physician.

INHALATION EXPOSURE
   If inhaled, remove to fresh air. If not breathing give
   artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE
   In case of contact, immediately wash skin with soap and copious
   amounts of water.
EYE EXPOSURE
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT
N/A

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)
Material: Irritant.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties
Appearance  
Color: Slightly beige  
Form: Powder  

Property | Value | At Temperature or Pressure  
--- | --- | ---  
Molecular Weight | 189.17 AMU |  
PH | N/A |  
BP/BP Range | N/A |  
MP/MP Range | 280 °C |  
Freezing Point | N/A |  
Vapor Pressure | N/A |  
Vapor Density | N/A |  
Saturated Vapor Conc. | N/A |  
SG/Density | N/A |  
Bulk Density | N/A |  
Odor Threshold | N/A |  
Volatile% | N/A |  
VOC Content | N/A |  
Water Content | < 4 % |  
Solvent Content | N/A |  
Evaporation Rate | N/A |  
Viscosity | N/A |  
Surface Tension | N/A |  
Partition Coefficient | N/A |  
Decomposition Temp. | N/A |  
Flash Point | N/A |  
Explosion Limits | N/A |  
Flammability | N/A |  
Autoignition Temp | N/A |  
Refractive Index | N/A |  
Optical Rotation | N/A |  
Miscellaneous Data | N/A |  
Solubility | N/A |  

N/A = not available  

Section 10 - Stability and Reactivity  

STABILITY  
Stable: Stable.  
Materials to Avoid: Strong oxidizing agents.  

HAZARDOUS DECOMPOSITION PRODUCTS  
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.  

HAZARDOUS POLYMERIZATION  
Hazardous Polymerization: Will not occur  

Section 11 - Toxicological Information  

ROUTE OF EXPOSURE  
Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes eye irritation.  
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Ingestion: May be harmful if swallowed.  

SIGNS AND SYMPTOMS OF EXPOSURE  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: Xi
Indication of Danger: Irritant.
R: 36/37/38
Risk Statements: Irritating to eyes, respiratory system and skin.
S: 26 36
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Irritant.
Risk Statements: Irritating to eyes, respiratory system and skin.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The
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