SECTION 1 - PRODUCT AND COMPANY INFORMATION
Product Name: 4-Hydroxy-3-nitrocoumarin
Catalog Number: sc-226673
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Ave.
Santa Cruz, California 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT
Substance Name: 4-Hydroxy-3-nitrocoumarin
CAS #: 20261-31-8
SARA 313: No
Formula: C9H5NO5
Molecular Weight: 207.14

SECTION 3 - HAZARDS IDENTIFICATION
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.

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: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep tightly closed. Store in a cool dry place.

SECTION 8 - EXPOSURE CONTROLS / PPE
ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES
Form: Crystals
pH: N/A
BP/BP Range: N/A
MP/MP Range: 172 °C
Freezing Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Saturated Vapor Conc.: N/A
Bulk Density: N/A
Odor Threshold: N/A
Volatile%: N/A
VOC Content: N/A
Water Content: N/A
Solvent Content: N/A
Evaporation Rate: N/A
Viscosity: N/A
Surface Tension: N/A
Partition Coefficient: 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.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

SECTION 11 - TOXICITY / EXPOSURE LIMITS
Dermal Absorption: Low
Skin Sensitization: N/A
Hazardous Reaction: N/A
Vapor Pressure: N/A
Water Solubility: N/A
Partition Coefficient: N/A
Health Hazard: N/A
Chronic Toxicity: N/A
Toxicological Data: N/A
N/A = not available

SECTION 12 - ECOLOGICAL INFORMATION
Biodegradability: N/A
Persistence: N/A
Bioaccumulation: N/A
Toxicity: N/A
Ecological Data: N/A
N/A = not available

SECTION 13 - DISPOSAL CONSIDERATIONS
Disposal Method: Wash contaminated clothing before reuse. Wash thoroughly after handling.

SECTION 14 - TRANSPORT INFORMATION
Transport Risk Class: N/A
Hazard Class: N/A
Special Transport Conditions: N/A
Incompatibility: N/A

SECTION 15 - REGULATORY INFORMATION
DOT: N/A
ICSC: N/A
Hazard Class: N/A
UN Number: N/A
Hazard Statement: N/A
Precautionary Statement: N/A
N/A = not available

SECTION 16 - OTHER INFORMATION
N/A = not available

continued...
HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION
ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.
Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

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
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
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
The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

10/26/2011