MATERIAL SAFETY DATA SHEET

Date Printed: 12/11/2008 Date Updated: 08/03/2006

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Version 1.4
Section 1 - Product and Company Information
Product Name
                             3-NITRO-L-TYROSINE
                             พ7389
Product Number
Brand
                             SIGMA
                             Sigma-Aldrich Canada, Ltd
Company
Address
                             2149 Winston Park Drive
                             Oakville ON L6H 6J8 CA
                             9058299500
Technical Phone:
                             9058299292
Fax:
                             800-424-9300
Emergency Phone:
Section 2 - Composition/Information on Ingredient
Substance Name
                                                              SARA 313
3-NITRO-L-TYROSINE
                                        621-44-3
Formula
                C9H10N2O5
Section 3 - Hazards Identification
EMERGENCY OVERVIEW
   Caution: Avoid contact and inhalation.
HMIS RATING
   HEALTH: 1
   FLAMMABILITY: 0
   REACTIVITY: 0
NFPA RATING
   HEALTH: 1
   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 breathing becomes difficult,
   call a physician.
DERMAL EXPOSURE
   In case of contact, immediately wash skin with soap and copious
   amounts of water.
EYE EXPOSURE
   In case of contact with eyes, flush with copious amounts of
   water for at least 15 minutes. Assure adequate flushing by
   separating the eyelids with fingers. Call a physician.
Section 5 - Fire Fighting Measures
FLASH POINT
   N/A
AUTOIGNITION TEMP
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.
Section 6 - Accidental Release Measures
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
   Exercise appropriate precautions to minimize direct contact with
   skin or eyes and prevent inhalation of dust.
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.
   Suitable: Keep tightly closed.
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
   from nuisance levels of dusts are desired, use type N95 (US) or
   type Pl (EN 143) dust masks.
  Hand: Protective gloves.
   Eye: Chemical safety goggles.
GENERAL HYGIENE MEASURES
  Wash thoroughly after handling.
Section 9 - Physical/Chemical Properties
SIGMA - N7389
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                        Physical State: Solid
Appearance
                        Color: Yellow
                        Form: Powder
Property
                        Value
                                            At Temperature or Pressure
Molecular Weight
                       226.19 AMU
                       N/A
ЮH
BP/BP Range
                       N/A
                       230 °c
MP/MP Range
Freezing Point
                       N/A
                       N/A
Vapor Pressure
                       N/A
Vapor Density
Saturated Vapor Conc. N/A
SG/Density
                        N/A
Bulk Density
                        N/A
Odor Threshold
                        N/A
Volatile%
VOC Content
                        N/A
Water Content
                        N/A
Solvent Content
                       N/A
                       N/A
Evaporation Rate
Viscosity
                       N/A
Surface Tension
                       N/A
Partition Coefficient N/A
Decomposition Temp. N/A
Flash Point
                       N/A
                       N/A
Explosion Limits
Flammability
                       N/A
Autoignition Temp
                       N/A
Refractive Index
                        N/A
                       Degree of Rotation: 32 g/l Solvent: 1 M HCl
Optical Rotation
                        +6.1 - +4.6 (+/-0.5)
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, Strong bases.
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: May cause skin irritation.
   Skin Absorption: May be harmful if absorbed through the skin.
   Eye Contact: May cause eye irritation.
   Inhalation: Material may be irritating to mucous membranes and
   upper respiratory tract. May be harmful if inhaled.
   Ingestion: May be harmful if swallowed.
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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.
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Non-Hazardous for Air Transport: Non-hazardous for air
transport.
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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.
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Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

US CLASSIFICATION AND LABEL TEXT

SARA LISTED: No

NDSL: No

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Section 16 - Other Information
DISCLAIMER
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The above information is believed to be correct but does not
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For R&D use only. Not for drug, household or other uses.

US Statements: Caution: Avoid contact and inhalation.

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purport to be all inclusive and shall be used only as a guide. The
information in this document is based on the present state of our
knowledge and is applicable to the product with regard to
appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc.,
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or packing slip for additional terms and conditions of sale.
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