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SIGMA-ALDRICH
                     MATERIAL SAFETY DATA SHEET
                                              Date Printed: 12/16/2008
                                              Date Updated: 02/06/2006
                                                         Version 1.4
Section 1 - Product and Company Information
Product Name
                             URIDINE-5'-DIPHOSPHOGALACTOSE DISODIUM &
                             94333
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
URIDINE 5'-DIPHOSPHOGALACTOSE
                                        137868-52-1
DISODIUM
               C15H22N2Na2017P2
Formula
Section 3 - Hazards Identification
EMERGENCY OVERVIEW
   Irritant.
   Irritating to eyes, respiratory system and skin.
   Target organ(s): Eyes. Nerves.
HMIS RATING
  HEALTH: 2*
   FLAMMABILITY: 0
   REACTIVITY: 0
NFPA RATING
   HEALTH: 2
   FLAMMABILITY: 0
   REACTIVITY: 0
   *additional chronic hazards present.
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.
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
   User Exposure: Do not breathe dust. Avoid contact with eyes,
   skin, and clothing. Avoid prolonged or repeated exposure.
STORAGE
   Suitable: Keep tightly closed.
   Store at -20°C
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). Where risk assessment shows air-purifying respirators are
   appropriate use a dust mask type N95 (US) or type P1 (EN 143)
   respirator.
   Hand: Compatible chemical-resistant gloves.
   Eye: Chemical safety goggles.
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GENERAL HYGIENE MEASURES
  Wash thoroughly after handling.
Section 9 - Physical/Chemical Properties
                       Physical State: Solid
Appearance
                                           At Temperature or Pressure
                       Value
Property
Molecular Weight
                       610.3 AMU
                       N/A
BP/BP Range
                       N/A
                      N/A
MP/MP Range
Freezing Point
                      N/A
Vapor Pressure
                       N/A
                       N/A
Vapor Density
Saturated Vapor Conc. N/A
SG/Density
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
Viscosity
Surface Tension
                       N/A
Partition Coefficient N/A
Decomposition Temp.
Flash Point
                        N/A
                        N/A
Explosion Limits
Flammability
Autoignition Temp
                        N/A
Refractive Index
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, Phosphorous 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.
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TARGET ORGAN(S) OR SYSTEM(S)
   Eyes. Nerves. Liver. Kidneys.
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
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Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Safety Statements: Wear suitable protective clothing.

US Statements: Target organ(s): Eyes. Nerves.

Risk Statements: Irritating to eyes, respiratory system and skin.

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Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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

Section 16 - Other Information

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

UNITED STATES REGULATORY INFORMATION

Proper Shipping Name: None

EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xi

R: 36/37/38

s: 26

DSL: No NDSL: No

DISCLAIMER

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Indication of Danger: Irritant.

DOT

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paper copies for internal use only.

The above information is believed to be correct but does not

guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

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

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contains all the information required by the CPR.

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