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MATERIAL SAFETY DATA SHEET
                                               Date Printed: 08/20/2009
                                              Date Updated: 01/31/2006
                                                         Version 1.3
Section 1 - Product and Company Information
Product Name
                             3-OXOADIPIC ACID, 98%
                             268348
Product Number
Brand
                             ALDRICH
                             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-OXOADIPIC ACID, 98%
                                        689-31-6
                C6H8O5
Formula
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
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.
EXPOSURE HAZARD(S)
  Material: Irritant.
Section 6 - Accidental Release Measures
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
   Wear self-contained breathing apparatus, 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. Do not get in eyes, on skin, on
   clothing.
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: Rubber gloves.
   Eye: Chemical safety goggles.
GENERAL HYGIENE MEASURES
   Wash thoroughly after handling. Wash contaminated clothing before
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  reuse.
Section 9 - Physical/Chemical Properties
Molecular Weight
                       160.13 AMU
                       N/A
рΗ
BP/BP Range
                       N/A
MP/MP Range
                       124.0 - 126.0 °C
Freezing Point
                       N/A
Vapor Pressure
Vapor Density
Saturated Vapor Conc. N/A
Bulk Density
                       N/A
                       N/A
Odor Threshold
Volatile%
                        N/A
VOC Content
                        N/A
Water Content
                        N/A
Solvent Content
Evaporation Rate
Viscosity
                        N/A
Surface Tension
                       N/A
Partition Coefficient N/A
Decomposition Temp.
                       N/A
                       N/A
Flash Point
Explosion Limits
Flammability
Autoignition Temp
                       N/A
Refractive Index
Optical Rotation
Miscellaneous Data
                       N/A
Solubility
                        N/A
N/A - not available
Section 10 - Stability and Reactivity
STABILITY
  Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
  Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.
Section 11 - Toxicological Information
ROUTE OF EXPOSURE
   Inhalation: Material is irritating to mucous membranes and upper
   respiratory tract.
   Multiple Routes: Causes eye and skin irritation. 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
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   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.
   Safety Statements: In case of contact with eyes, rinse
   immediately with plenty of water and seek medical advice. Wear
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SARA LISTED: No
CANADA REGULATORY INFORMATION
  WHMIS Classification: This product has been classified in
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Section 16 - Other Information

DSL: No NDSL: No

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UNITED STATES REGULATORY INFORMATION

suitable protective clothing.

Indication of Danger: Irritant.

suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

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For R&D use only. Not for drug, household or other uses.
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paper copies for internal use only.

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 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., 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.

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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

accordance with the hazard criteria of the CPR, and the MSDS

contains all the information required by the CPR.

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