MATERIAL SAFETY DATA SHEET

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SARA 313

Section 1 - Product and Company Information Product Name

IMIDAZOLE-4-ACETIC ACID HYDROCHLORIDE 56770 Product Number Brand FLUKA

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Section 2 - Composition/Information on Ingredient Substance Name

4-IMIDAZOLEACETIC ACID 3251-69-2 HYDROCHLORIDE, 98%

Formula C5H6N2O2.C1H

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.

INHALATION EXPOSURE

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

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 4 - First Aid Measures

ORAL EXPOSURE

DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious

EYE EXPOSURE

amounts of water.

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

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

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

skin or eyes and prevent inhalation of dust.

FIREFIGHTING

STORAGE

Appearance

Molecular Weight

Freezing Point

Vapor Pressure

Saturated Vapor Conc. N/A

Partition Coefficient N/A

Vapor Density

SG/Density

VOC Content

Viscosity

Flash Point

Water Content

Solvent Content

Surface Tension

Evaporation Rate

Decomposition Temp.

Property

and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

pickup is complete.

ENGINEERING CONTROLS

EXTINGUISHING MEDIA

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

Exercise appropriate precautions to minimize direct contact with

Protective Equipment: Wear self-contained breathing apparatus

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

Section 7 - Handling and Storage

Suitable: Keep tightly closed. Section 8 - Exposure Controls / PPE

(EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or

Page 2

At Temperature or Pressure

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

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

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N/A ЮH BP/BP Range N/A 218°C MP/MP Range

N/A

Value

162.58 AMU

N/A Bulk Density Odor Threshold Volatile%

Color: Very faintly beige

Form: Fine crystals

Explosion Limits N/A Flammability N/A N/A Autoignition Temp 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, Hydrogen chloride gas. 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.

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

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

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

Non-Hazardous for Air Transport: Non-hazardous for air

US Statements: Caution: Avoid contact and inhalation.

WHMIS Classification: This product has been classified in

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

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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Page 4

Page 5

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Page 3

Section 13 - Disposal Considerations APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose

environmental regulations.

Proper Shipping Name: None

US CLASSIFICATION AND LABEL TEXT

CANADA REGULATORY INFORMATION

Section 16 - Other Information

UNITED STATES REGULATORY INFORMATION

Section 14 - Transport Information

Section 12 - Ecological Information

SIGNS AND SYMPTOMS OF EXPOSURE

FLUKA - 56770

No data available.

Section 15 - Regulatory Information EU ADDITIONAL CLASSIFICATION s: 22-24/25 Safety Statements: Do not breathe dust. Avoid contact with skin

and eyes.

WARRANTY

FLUKA - 56770

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SARA LISTED: No

transport.

DOT

accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No

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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