Safety Data Sheet

Section 1: Identification of the substance/mixture, intended use and of the company/undertaking

1.1 Identification of the substance/mixture

Product No.: 1127
Product Name: Tetrazine-NHS Ester
Synonym: n/a

1.2 Identified uses of the substance or mixture
Identified Uses: Laboratory chemicals, manufacture of substances

1.3 Company/undertaking identification

Click Chemistry Tools
8341 E. Gelding Drive
Scottsdale, AZ 85260
Tel: 1-480-584-3340
Fax: 1-866-717-2037

Section 2: Composition/Information on Ingredients

CAS No.: n/a
Mol. Formula: C14H11N5O4
Mol. Weight: 313.27
Assay: N/A

The product contains no substances which at their given concentration are considered to be hazardous to health.

Section 3: Hazards Identification

3.1 Classification of the substance or mixture
Not a hazardous substance or mixture.

3.2 GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.

3.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Not a hazardous substance or mixture.
Section 4: First-Aid Measures

4.1 Description of first aid measures

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

In case of skin contact

Rinse with plenty of water. Immediate medical attention is not required.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

4.3 Most important symptoms and effects, both acute and delayed

Not Applicable

4.4 Indication of any immediate medical attention and special treatment needed

None

Section 5: Fire Fighting Measures

5.1 Extinguishing media


5.2 Advice from firefighters

Standard procedure for chemical fires.

5.3 Further information

No data available
Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

See Section 8 for additional information.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

For research use only.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits

Contains no substances with occupational exposure limit values

Engineering measures

Ensure adequate ventilation, especially in confined areas

8.2 Exposure controls

Personal Protective Equipment
Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards

Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves

Eye/Face protection

Wear tight sealing safety goggles

Skin/Body Protection

Wear suitable protective clothing

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

Control of Environmental exposure

No special environmental precautions required

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance    Form: solid
b) Odor     No data available
c) Odor Threshold   No data available
d) pH     Not Applicable
e) Melting / Freezing points   °C and °F Mixture has not been tested
f) Initial boiling point & boiling range   °C and °F Mixture has not been tested
g) Flash point   °C and °F Mixture has not been tested
h) Evaporation rate   No data available
i) Flammability (solid, gas) No data available
j) Explosive limits Mixture has not been tested
k) Vapor pressure  
   Mixture has not been tested

l) Vapor pressure  
   Mixture has not been tested

m) Relative density  
   Mixture has not been tested

n) Water solubility  
   DMSO, DMF, DCM, THF, Chloroform

o) Partition coefficient: n-octanol/water  
   No data available

p) Auto-ignition temperature  
   No data available

q) Decomposition temperature  
   No data available

r) Viscosity  
   No data available

s) Explosive properties  
   No data available

t) Oxidizing properties  
   No data available

9.2 Other safety information

   No data available.

Section 10: Stability and Reactivity

10.1 Reactivity

   None known

10.2 Chemical stability

   Stable under normal conditions

10.3 Possibility of hazardous reactions

   Hazardous reaction has not been reported

10.4 Conditions to avoid

   No information available

10.5 Incompatible materials

   No dangerous reaction known under conditions of normal use

10.6 Hazardous decomposition products

   No data available
Section 11: Toxicological Information

11.1 Information on toxicological effects

There is no evidence available indicating acute toxicity

11.2 Principal Routes of Exposure

- Irritation: Conclusive but not sufficient for classification
- Corrosivity: Conclusive but not sufficient for classification
- Sensitization: Conclusive but not sufficient for classification
- STOT - Single Exposure: Conclusive but not sufficient for classification
- STOT - Repeated Exposure: Conclusive but not sufficient for classification
- Carcinogenicity: Conclusive but not sufficient for classification
- Mutagenicity: Conclusive but not sufficient for classification
- Reproductive toxicity: Conclusive but not sufficient for classification
- Aspiration hazard: Conclusive but not sufficient for classification

Section 12: Ecological Information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB
12.5 Other adverse effects

No information available

Section 13: Disposal Considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14: Transport Information

14.1 IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations.

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<tbody>
<tr>
<td>UN proper shipping name</td>
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<tr>
<td>Transport hazard class(es)</td>
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<tr>
<td>Packing group</td>
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<tr>
<td>Environmental hazards</td>
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<tr>
<td>Special precautions for user</td>
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

Section 15: Regulatory Information

15.1 SARA 313 Components

This product is not regulated by SARA

15.2 Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs
15.3 California Proposition 65

This product does not contain any Proposition 65 chemicals.

15.4 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16: Other Information

References

• ECHA: http://echa.europa.eu/

• TOXNET: http://toxnet.nlm.nih.gov/

• eChemPortal: http://www.echemportal.org/

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