IDENTIFICATION

MSDS Record Number: 5618174
Product Name(s): 1-Methyl-2-Pyrrolidinone
Product Identification: MSDS NUMBER: M7114
                      PRODUCT CODE: 639R, 6478, 9261, R053, R056, 6392
                      C.A.S. NUMBER: 872-50-4
Date of MSDS: 2006-07-06
Currency Note: This MSDS was acquired from the supplier on 2007-09-06.

MANUFACTURER/SUPPLIER INFORMATION

Company: MALLINCKRODT BAKER INC

MATERIAL SAFETY DATA

Effective Date: 07/06/06
Supercedes: 06/01/06

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MSDS MATERIAL SAFETY DATA SHEET
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From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865

Emergency Telephone Number: 908-859-2151

NOTE: Use CHEMTREC and CANUTEC phone numbers only in the event of a chemical emergency.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

M A L L I N C K R O D T          J. T.        B A K E R
                                                                                           1-Methyl-2-Pyrrolidinone
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1. Product Identification

   Synonyms: N-methylpyrrolidinone; N-methyl-2-pyrrolidone; NMP;
             M-Pyrol
   CAS No:  872-50-4
   Molecular Weight: 99.13
   Chemical Formula: C5H9NO
Ingestion:
Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:
Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:
Flash point: 93C (199F) CC
Autoignition temperature: 346C (655F)
Flammable limits in air % by volume:
lel: 0.99; uel: 3.9
Combustible.

Explosion:
Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media:
Dry chemical, foam or carbon dioxide.

Special Information:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!
J. T. Baker SOLUSORB(R) solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.
Will not occur.

Incompatibilities:
Strong oxidants and acids. Reacts with chlorinating agents to form the amide. Reacts with sulfur or carbon disulfide at high temperatures and pressures.

Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

1-Methyl-2-pyrrolidinone:
Oral rat LD50: 3914 mg/kg;
Skin rabbit LD50: 8 gm/kg;
Investigated as a mutagen, tumorigen and reproductive effector.

--------\Cancer Lists\-------------------------------

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>NTP Carcinogen--</th>
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<tbody>
<tr>
<td></td>
<td>Known</td>
</tr>
<tr>
<td>1-Methyl-2-pyrrolidinone</td>
<td>No</td>
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(872-50-4)

12. Ecological Information

Environmental Fate:
When released into the soil, this material may biodegrade to a moderate extent. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be moved from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:
The LC50/96-hour values for fish are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.
swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Product Use:
Laboratory Reagent.

Revision Information:
MSDS Section(s) changed since last revision of document include: 11, 15, 16.

Disclaimer:
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M7114

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