

| SECTION 1: Identification of the substance/mixture and of the company/undertaking |  |   |   |  |
|---|--|---|---|--|
| 1.1   | Product identifiers  |   |   |  |
|   | Product name   | : | Polyimide Sealing Resin   |  |
|   | Product Number<br>Brand  | : | 23817<br>Supelco  |  |
| 1.2   | .2 Relevant identified uses of the substance or mixture and uses advised against |   | of the substance or mixture and uses advised against  |  |
|   | Identified uses  | : | Laboratory chemicals, Synthesis of substances   |  |
|   | Uses advised against   | : | The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma. |  |
| 1.3   | 3 Details of the supplier of the safety data sheet                               |   |   |  |
|   | Company  | : | Sigma-Aldrich Inc.<br>3050 SPRUCE ST<br>ST. LOUIS MO 63103<br>UNITED STATES   |  |
|   | Telephone<br>Fax   | : | +1 314 771-5765<br>+1 800 325-5052  |  |
| 1.4   | Emergency telephone  | • |   |  |
|   | Emergency Phone #  | : | 800-424-9300 CHEMTREC (USA) +1-703-<br>527-3887 CHEMTREC (International) 24   |  |

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Hours/day; 7 Days/week

Flammable liquids (Category 4), H227 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360

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Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Aspiration hazard (Category 1), H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

| Signal Word   | Danger   |
|---|--|
| Hazard Statements<br>H227<br>H304<br>H315<br>H319<br>H335<br>H340<br>H350<br>H360 | Combustible liquid.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May cause genetic defects.<br>May cause cancer.<br>May damage fertility or the unborn child. |
| Precautionary Statements  |  |
| P201<br>P202  | Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and<br>understood.  |
| P210  | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  |
| P261  | Avoid breathing mist or vapors.  |
| P264  | Wash skin thoroughly after handling.   |
| P271<br>P280  | Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/ protective clothing/ eye protection/ face   |
| F200  | protection.  |
| P301 + P310   | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  |
| P302 + P352   | IF ON SKIN: Wash with plenty of soap and water.  |
| P304 + P340 + P312  | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  |
| P305 + P351 + P338  | IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue<br>rinsing.   |
| P308 + P313   | IF exposed or concerned: Get medical advice/ attention.  |
| P331  | Do NOT induce vomiting.  |
| P332 + P313   | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313   | If eye irritation persists: Get medical advice/ attention.   |
| P362  | Take off contaminated clothing and wash before reuse.  |
| P370 + P378   | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.   |
| P403 + P233   | Store in a well-ventilated place. Keep container tightly closed.   |
| P403 + P235   | Store in a well-ventilated place. Keep cool.   |
| P405  | Store locked up.   |
| P501  | Dispose of contents/ container to an approved waste disposal plant.  |

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Component  |  | Classification  | Concentration       |  |  |
|--|--|---|---------------------|--|--|
| N-methyl-2-pyrrolidone                                   |  |   |                     |  |  |
| CAS-No.<br>EC-No.<br>Index-No.<br>Registration<br>number | 872-50-4<br>212-828-1<br>606-021-00-7<br>01-2119472430-46-<br>XXXX | Flam. Liq. 4; Skin Irrit. 2;<br>Eye Irrit. 2A; Repr. 1B;<br>STOT SE 3; H227, H315,<br>H319, H360, H335<br>Concentration limits:<br>>= 10 %: STOT SE 3,<br>H335; | >= 90 - <=<br>100 % |  |  |
| Light aromatic naphtha                                   |  |   |                     |  |  |
| CAS-No.<br>EC-No.<br>Index-No.                           | 64742-95-6<br>265-199-0<br>649-356-00-4                            | Muta. 1B; Carc. 1B; Asp.<br>Tox. 1; H340, H350, H304  | >= 30 - < 50<br>%   |  |  |

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

# In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

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# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

#### Suitable extinguishing media

Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

# **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental precautions** Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

#### **6.4** Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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# Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

# **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage stabilityRecommended storage temperature

# 2 - 8 °C

#### Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

# Ingredients with workplace control parameters

| Ingredients with workplace control parameters |                |   |                        |  |  |  |
|---|----------------|---|------------------------|--|--|--|
| Component                                     | CAS-No.        | Value   | Control<br>parameters  | Basis  |  |  |
| N-methyl-2-<br>pyrrolidone                    | 872-50-4       | TWA   | 15 ppm<br>60 mg/m3     | USA. Workplace Environmental<br>Exposure Levels (WEEL)   |  |  |
|   | Remarks        | Skin  |                        |  |  |  |
|   |                | STEL  | 30 ppm<br>120 mg/m3    | USA. Workplace Environmental<br>Exposure Levels (WEEL)   |  |  |
|   |                | Skin  |                        |  |  |  |
|   |                | PEL   | 1 ppm<br>4 mg/m3       | California permissible exposure<br>limits for chemical<br>contaminants (Title 8, Article<br>107) |  |  |
|   |                | Skin  |                        |  |  |  |
| Light aromatic<br>naphtha                     | 64742-95-<br>6 | TWA   | 500 ppm<br>2,000 mg/m3 | USA. Occupational Exposure<br>Limits (OSHA) - Table Z-1<br>Limits for Air Contaminants           |  |  |
|   |                | TWA   | 200 mg/m3              | USA. ACGIH Threshold Limit<br>Values (TLV)   |  |  |
|   |                | Confirmed animal carcinogen with unknown relevance to<br>humans<br>Danger of cutaneous absorption |                        |  |  |  |

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# **Biological occupational exposure limits**

| Component                  | CAS-No.  | Parameters   | Value    | Biological specimen | Basis  |
|----------------------------|----------|--|----------|---------------------|--|
| N-methyl-2-<br>pyrrolidone | 872-50-4 | 5-Hydroxy-<br>N-methyl-2-<br>pyrrolidone                 | 100 mg/l | Urine               | ACGIH -<br>Biological<br>Exposure Indices<br>(BEI) |
|                            | Remarks  | End of shift (As soon as possible after exposure ceases) |          |                     | osure ceases)                                      |

# 8.2 Exposure controls

# Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

# **Personal protective equipment**

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

protective clothing

#### **Respiratory protection**

Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when vapours/aerosols are generated.

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Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

| a)                                     | Appearance  | Form: liquid  |
|--|---|---|
| b)                                     | Odor  | No data available   |
| c)                                     | Odor Threshold  | No data available   |
| d)                                     | рН  | No data available   |
| e)                                     | Melting<br>point/freezing point   | No data available   |
| f)                                     | Initial boiling point<br>and boiling range  | No data available   |
| g)                                     | Flash point   | 86.11 °C (187.00 °F) - closed cup   |
| h)                                     | Evaporation rate  | No data available   |
| i)                                     | Flammability (solid,<br>gas)  | No data available   |
| j)                                     | Upper/lower<br>flammability or<br>explosive limits  | No data available   |
| k)                                     | Vapor pressure  | No data available   |
| N)                                     | rapor pressure  |   |
| l)                                     | Vapor density   | No data available   |
| 1)                                     |   |   |
| 1)                                     | Vapor density   | No data available   |
| 1)                                     | Vapor density<br>Density  | No data available<br>No data available  |
| l)<br>m)                               | Vapor density<br>Density<br>Relative density  | No data available<br>No data available<br>No data available   |
| l)<br>m)<br>n)                         | Vapor density<br>Density<br>Relative density<br>Water solubility<br>Partition coefficient:  | No data available<br>No data available<br>No data available<br>No data available  |
| l)<br>m)<br>n)<br>o)                   | Vapor density<br>Density<br>Relative density<br>Water solubility<br>Partition coefficient:<br>n-octanol/water<br>Autoignition   | No data available<br>No data available<br>No data available<br>No data available<br>No data available   |
| l)<br>m)<br>n)<br>o)<br>p)             | Vapor density<br>Density<br>Relative density<br>Water solubility<br>Partition coefficient:<br>n-octanol/water<br>Autoignition<br>temperature<br>Decomposition                             | No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available                      |
| l)<br>m)<br>n)<br>o)<br>p)<br>q)       | Vapor density<br>Density<br>Relative density<br>Water solubility<br>Partition coefficient:<br>n-octanol/water<br>Autoignition<br>temperature<br>Decomposition<br>temperature              | No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available |
| l)<br>m)<br>n)<br>o)<br>p)<br>q)<br>r) | Vapor density<br>Density<br>Relative density<br>Water solubility<br>Partition coefficient:<br>n-octanol/water<br>Autoignition<br>temperature<br>Decomposition<br>temperature<br>Viscosity | No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available |

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#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

#### **10.2** Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### **10.3 Possibility of hazardous reactions** No data available

No data avallable

**10.4 Conditions to avoid** Strong heating.

- **10.5 Incompatible materials** No data available
- **10.6** Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Mixture

# Acute toxicity

Oral: No data available Symptoms: Possible symptoms:, mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Dermal: No data available

#### Skin corrosion/irritation

Remarks: Mixture causes skin irritation.

#### Serious eye damage/eye irritation

Remarks: Mixture causes serious eye irritation.

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

Possible mutagen

# Carcinogenicity

Possible carcinogen.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as probable, possible or confirmed human carcinogen by IARC.

- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

May harm the unborn child. May impair fertility.

Specific target organ toxicity - single exposure

Mixture may cause respiratory irritation.

#### **Specific target organ toxicity - repeated exposure** No data available

#### Aspiration hazard

Aspiration hazard, Aspiration may cause pulmonary edema and pneumonitis.

#### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

Bone marrow - Irregularities - Based on Human Evidence

#### Components

#### N-methyl-2-pyrrolidone

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 4,150 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 5.1 mg/l - aerosol (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: Irritating to skin. - 24 h (OECD Test Guideline 404) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Serious eye damage/eye irritation** Eyes - Rabbit Result: Eye irritation

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(OECD Test Guideline 405) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Result: negative Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Result: negative Method: OECD Test Guideline 474 Species: Mouse - male and female - Bone marrow Result: negative Method: OECD Test Guideline 475 Species: Chinese hamster - male and female - Bone marrow Result: negative

#### Carcinogenicity

No data available

# **Reproductive toxicity**

May damage the unborn child.

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory system

# Specific target organ toxicity - repeated exposure

#### **Aspiration hazard**

No data available

# Light aromatic naphtha

#### **Acute toxicity**

LD50 Oral - Rat - 8,400 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Lungs, Thorax, or Respiration:Other changes. LC50 Inhalation - Rat - male and female - 4 h - > 7,630 mg/m3 (OECD Test Guideline 403) LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402) No data available

### Skin corrosion/irritation

No data available

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# Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

#### **Respiratory or skin sensitization**

Buehler Test - Guinea pig Result: Does not cause skin sensitization. (OECD Test Guideline 406)

# Germ cell mutagenicity

No data available Test system: S. typhimurium Result: negative Species: Rat - male and female Result: negative

#### Carcinogenicity

No data available

#### **Reproductive toxicity**

No data available No data available

#### Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure No data available

#### **Aspiration hazard**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

**Mixture** No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available

#### **12.4 Mobility in soil** No data available

- **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Endocrine disrupting properties** No data available

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# 12.7 Other adverse effects

No data available

# Components

| <b>N-methyl-2-pyrrolidone</b><br>Toxicity to fish                              | static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 500<br>mg/l - 96 h<br>Remarks: (ECHA)      |
|--|---|
| Toxicity to daphnia<br>and other aquatic<br>invertebrates                      | EC50 - Daphnia magna (Water flea) - ca. 4,897 mg/l - 48 h<br>Remarks: (IUCLID)                        |
| Toxicity to algae  | static test EC50 - Desmodesmus subspicatus (green algae) -<br>672.8 mg/l - 72 h<br>(DIN 38412)        |
| Toxicity to daphnia<br>and other aquatic<br>invertebrates(Chronic<br>toxicity) | semi-static test NOEC - Daphnia magna (Water flea) - 12.5<br>mg/l - 21 d<br>(OECD Test Guideline 211) |
| Light aromatic naphtha   |   |

No data available

# **SECTION 13: Disposal considerations**

#### **13.1** Waste treatment methods

#### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### **SECTION 14: Transport information**

#### DOT (US)

NA-Number: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (N-methyl-2-pyrrolidone) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods Supelco - 23817

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| SECTION 15: Regulatory information   |   |                             |  |  |  |  |
|--|---|-----------------------------|--|--|--|--|
| Section 15: Regulatory mormation   |   |                             |  |  |  |  |
| SARA 302 Components<br>This material does not contain any components with a  | <b>SARA 302 Components</b><br>This material does not contain any components with a section 302 EHS TPQ.               |                             |  |  |  |  |
| <b>SARA 313 Components</b><br>The following components are subject to reporting lev<br>Section 313:  | <b>SARA 313 Components</b><br>The following components are subject to reporting levels established by SARA Title III, |                             |  |  |  |  |
| N-methyl-2-pyrrolidone   | CAS-No.<br>872-50-4   | Revision Date 2007-03-01    |  |  |  |  |
| <b>SARA 311/312 Hazards</b><br>Fire Hazard, Acute Health Hazard, Chronic Health Haz  | zard  |                             |  |  |  |  |
| Massachusetts Right To Know Components   | Massachusetts Right To Know Components  |                             |  |  |  |  |
| N-methyl-2-pyrrolidone   | CAS-No.<br>872-50-4   | Revision Date<br>2007-03-01 |  |  |  |  |
| Denneylyania Dight To Know Components  |   |                             |  |  |  |  |
| Pennsylvania Right To Know Components<br>N-methyl-2-pyrrolidone  | CAS-No.<br>872-50-4   | Revision Date<br>2007-03-01 |  |  |  |  |
| Light aromatic naphtha   | 64742-95-6  | 1989-08-11                  |  |  |  |  |
| <b>California Prop. 65 Components</b><br>, which is/are known to the State of California to<br>cause birth defects or other reproductive harm. For<br>more information go to www.P65Warnings.ca.gov.N-<br>methyl-2-pyrrolidone | CAS-No.<br>872-50-4   | Revision Date<br>2009-02-01 |  |  |  |  |

# **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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