

Section 1 - Chemical Product and Company Identification

MSDS Name: 1-Methyl-2-pyrrolidinone
Catalog Numbers: AC127630000, AC127630010, AC127630025, AC127630051, AC222080000, AC222080025, AC222080025, AC222085000, AC326930000, AC326930010, AC326931000, AC326932500, AC326932500, AC354890000, AC354890025, AC354900000, AC354900025, AC364380000, AC364380000, AC364380010, AC364380025, AC364381000, AC368450000, AC368450010, AC368450010, AC368450025, AC368451000, AC610411000, BP1172-4, BP11724LC, BP1172N1-19, BP1172N119, BP1172RS-50, BP1172SS-50, BP2619-100, NC9442234, NC9749337, O3688-4
Synonyms: NMP; N-Methylpyrrolidone; N-Methylpyrrolidinone; N-Methyl-2-pyrrolidone; N-Methyl-2-pyrrolidinone; M-Pyrol; 1-Methyl-2-pyrrolidone; solvent in paint strippers.
Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium
Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 872-50-4
Chemical Name: 1-Methyl-2-pyrrolidinone
%: 99
EINECS#: 212-828-1

Hazard Symbols: T



Risk Phrases: 61 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Combustible liquid and vapor. Hygroscopic (absorbs moisture from the air). Light sensitive. May be harmful if swallowed, inhaled, or absorbed through the skin. May cause harm to the unborn child. Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. May cause temporary corneal clouding.
Skin: Causes skin irritation. May be harmful if absorbed through the skin. Not expected to cause an allergic skin reaction.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Causes respiratory tract irritation. May cause headache. Material has a very low vapor pressure at room temperature, so inhalation exposures are not expected unless material is heated or misted.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Adverse reproductive effects have been reported in animals.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Combustible liquid and vapor.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: 245 deg C (473.00 deg F)

Flash Point: 91 deg C (195.80 deg F)

Explosion Limits: 1.3%
Lower:

Explosion Limits: 9.5%
Upper:

NFPA Rating: health: 2; flammability: 2; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep away from heat and flame. Avoid breathing vapor or mist.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits +-----+-----+

+-----+	+-----+	+-----+
Chemical Name	ACGIH	NIOSH OSHA -

Final PELs|

1-Methyl-2-pyrrolidinone	none listed	none listed	none listed
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OSHA Vacated PELs: 1-Methyl-2-pyrrolidinone: None listed

Personal Protective Equipment

- Eyes:** Wear chemical splash goggles.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear colorless

Odor: amine-like - mild odor

pH: 8.5-10.0 (100 g/l H₂O)

Vapor Pressure: 0.342 mm Hg @ 25 deg C

Vapor Density: 3.4 (air=1)

Evaporation Rate: Not available

Viscosity: 1.65 cps @ 25 deg C

Boiling Point: 202 deg C @ 760 mmHg (395.60°F)

Freezing/Melting Point: -24 deg C (-11.20°F)

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density: 1.030

Molecular Formula: C₅H₉NO

Molecular Weight: 99.13

Section 10 - Stability and Reactivity

- Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
- Conditions to Avoid:** Light, ignition sources, excess heat, exposure to moist air or water.
- Incompatibilities with Other Materials:** Strong oxidizing agents, strong acids.
- Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.
- Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 872-50-4: UY5790000

LD50/LC50: RTECS:

CAS# 872-50-4: Draize test, rabbit, eye: 100 mg Moderate;

Oral, mouse: LD50 = 5130 mg/kg;

Oral, rat: LD50 = 3914 mg/kg;

Skin, rabbit: LD50 = 8 gm/kg;

Other: Sensitization test (guinea pig): negative; Patch test (humans): negative.(Merck)

Carcinogenicity: 1-Methyl-2-pyrrolidinone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Daphnia: Daphnia: 4897 mg/l; 48 h; EC50
Fish: Gold orfe: 4000 mg/l; 96 h; LC50
Bacteria: >9000 mg/l; 48 h; EC50
Algae: >500 mg/l; 72 h; IC50

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 61 May cause harm to the unborn child.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 872-50-4: 1

Canada

CAS# 872-50-4 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D2A, D2B

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

CAS# 872-50-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 872-50-4 is listed on the TSCA
Inventory.

Section 16 - Other Information

MSDS Creation Date: 6/10/2003

Revision #4 Date 8/18/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.