

AERCHEM INC.
320 North Walnut
Bloomington, IN 47404

Tel: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 6/1/94

Product Name: N-Methyl Pyrrolidone

Molecular Formula: N/A

CAS No.: 872-50-4

SECTION 2: HAZARDOUS INGREDIENTS:

Moderately combustible liquid. Severe eye irritant, slight ingestion hazard, moderate skin irritant, slight skin absorption hazard, no inhalation hazard identified from available data. Human experience has demonstrated redness, cracking and blistering of skin through repeated or prolonged contact with this material.

SECTION 3: PHYSICAL DATA

Odor: amine-like odor
Appearance: clear liquid
Melting point.: N/A
Boiling point: 396C
Decomposition temperature: N/A
pH (depends on quality): 7.7-8
Solubility in water: Complete
Specific gravity (water = 1) approximately 1
Vapor density: N/A
Vapor pressure: 0.3 mmHg at 68C

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: 199F
Flammable limit: lower: 1.3%vol in air, Upper: 9.5%vol in air
Flammability: flammable when exposed to temperatures greater than flash point.
Extinguishing media: Dry chemicals, CO₂, water spray, or foam.
Fire fighting procedures: Don not enter fire area without proper protection. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters. Unusual fire and explosions hazards: Releases flammable vapors when heated above flash point. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mist may be combustible at temperatures below normal flash point.

SECTION 5: REACTIVITY DATA

Stable X Unstable

Decomposition byproducts: Incomplete combustion may produce carbon monoxide and other toxic gases.

Incompatibilities/Condition to Avoid: strong oxidizing agents, reducing agents

Hazardous Polymerization: not expected to occur.

SECTION 6: HEALTH HAZARD DATA

Toxicity: 1.0 mg/l for extensive periods of time developed excessive mortality, focal pneumonia, bone marrow hypoplasia and atrophy of lymphoid tissue.

Route of Entry: Inhalation, eye contact, skin contact, ingestion.

Permissible Exposure limits: N/A

TWA: N/A

TLV: N/A

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: combustible liquid. Release may ignite and may cause fire/explosion. Liquid or vapor may ignite. Evacuate/limit access. Extinguish all ignition sources. Stop release. Prevent flow to sewer/public waters. Notify fire and environmental authorities. Blanket with firefighting foam. Restrict water use for cleanup. Impound/recover large land spill. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble

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and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue. Report per regulatory requirements.

Disposal: Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to potential combustibility. Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids. Avoid flames. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

SECTION 8: FIRST AID PROCEDURES

Eye Contact: Immediately rinse with clean water for 20-30 minutes, retracting eyelids often. Obtain emergency medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Ingestion: If large quantity swallowed give lukewarm water if victim completely conscious/alert. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

SECTION 9: HANDLING AND STORAGE INFORMATION:

Handle empty containers with care; residue may be combustible and burn if exposed to ignition source. Residual vapor and liquid may also be toxic; keep empty containers tightly closed when not in use. Avoid strong oxidizing agents, and direct sunlight. Note: Equipment containing this material should be isolated and thoroughly drained, washed and purged prior to maintenance/repair operations. Wear recommended personal protective equipment.

SECTION 10: SPECIAL PROTECTION INFORMATION:

Ventilation: At elevated temperatures, special ventilation may be required even if the flash point has not been exceeded. Flammable mists or aerosols can be generated below the flash point of high boiling liquids.

Skin Protection: Gloves, apron, sleeves, boots, head and face protection. Equipment must be cleaned thoroughly after each use.

Eye Protection: Chemical splash goggles and face shield. DO NOT wear contact lenses.

Respiratory Protection: NIOSH/MSHA approved respiratory protection equipment.

Other:

SECTION 11: TRANSPORT INFORMATION

DOT Classification: UN# not available 1993, combustible liquid.

SECTION 12: OTHER REGULATORY INFORMATION

Federal and State regulations:

WHMIS (Canada): N/A

DSCL (EEC): N/A

HMIS (USA): N/A