

Safety Data Sheet

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1. PRODUCT & IDENTIFICATION

Company

Curecrete Distribution, Inc. 1203 W. Spring Creek Place Springville, UT 84663 USA Phone: (801) 489-5663 Fax: (801) 489-3307 <u>www.curecrete.com</u>

Emergency Telephone Number: Call CHEMTREC Day or Night, Within USA or Canada 1-800-424-9300

Outside USA or Canada: Call 1-703-527-3887 (collect calls accepted)

Use only for hazardous materials (or dangerous goods) incident - spill, leak, fire, exposure, or accident.

Molecular formula: C(5)H(9)NO

Chemical Family: heterocyclic, amides Synonyms: NMP Technical

2. HAZARDS IDENTIFICATION

EXPOSURE LIMITS

Emergency overview

WARNING:

COMBUSTIBLE LIQUID.

Irritating to eyes and skin.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

A component of this product has been shown to be developmentally toxic in animal studies.

Use with local exhaust ventilation.

Avoid contact with the skin, eyes and clothing.

Wear a NIOSH-certified (or equivalent) organic vapor respirator.

Wear chemical resistant protective gloves.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: liquid Color: clear, colorless Odor: mild,amine-like

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Of low toxicity after single injestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Irritation / corrosion:

Eye contact causes irritation. Skin contact causes irritation. Causes temporary irritation of the respiratory tract. EUclassification.

Assessment other acute effects:

Causes temporary irritation of the respiratory tract.

Sensitization:

Skin sensitizing effects were not observed in animal studies.

Chronic toxicity:

Carcinogenicity: In long term studies in which the substance was given by inhalation, a carcinogenic effect was not observed. In long term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. In long term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent specific liver effect that is not relevant to humans. The whole of the information available provides no indication of a carcinogenic effect.

Repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the testes after repeated inhalation of high doses.

Reproductive toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

Teratogenicity: The substance caused malformations/developmental toxicity in laboratory animal.

Genotoxicity: The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 – Toxicological information.

Potential environmental effects

Terrestrial toxicity:

Study scientifically not justified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Content (W/W)	Chemical name
872-50-4	>= 99.8 %	N-Methylpyrrolidone
60544-40-3	<= 0.4 %	Pyrrolidinone, dimethyl-

4. FIRST AID MEASURES

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. FIRE-FIGHTING MEASURES

Flash Point: 196° F (91°C) (ASTM D93)

Autoignition: 473° F (245°C) Lower explosion limit: 1.3%(V) (air)

Upper explosion limit: 9.5%(V)

Flammability: not readily ignited

Self-ignition temperature: not self-igniting.

Suitable extinguishing media:

Water spray, dry powder, carbon dioxide, foam

Hazards during fire-fighting:

Carbon monoxide, carbon dioxide, nitrous gases

Under certain conditions in case of fire other hazardous combustion products may be generated.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

7. HANDLING & STORAGE

Handling

General advice:

If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Ensure thorough ventilation of stores and work areas. Keep way from sources of ignitions – No smoking. Avoid all direct contact with the substance/product.

Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection.

Protection against fire and explosion:

The products is combustible.

Storage:

Containers should be stored tightly sealed in a dry place.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapor respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact. Wear butyl rubber (butyl) – 0.7 mm coating thickness. Consult glove manufacturer for testing data.

Eye protection:

Tightly fitting safety goggles (chemical goggles), or safety glasses with side-shields. Wear face shield if splashing hazard exists.

Body protection:

Cover as much of the exposed skin as possible to prevent all skin contact such as head protection, apron, protective boots and a chemical protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Females in early pregnancy must never be exposed to the substance. Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Eye wash fountains and safety showers must be easily accessible. Wash soiled clothing immediately. When using do not eat, drink or smoke. Gloves must be inspected regularly and prior to each use. Replace if necessary (pinhole leaks).

9. PHYSICAL / CHEMICAL PROPERTIES

Form: liquid

Odor: mild, amine-like

Color: clear pH value: 8.5 – 10

pH value: 8.5 - 10 (100 g/l, 20°C) 68°F Melting point: -23.6 °C (-10.5°F) (760 mmHg)

 Boiling point:
 204.3 °C (400°F)
 (760 mmHg)

 Vapor pressure:
 0.32 hPa
 (20°C)68°F (measured)

 Density:
 1.028 g/cm3
 (25°C) 77°F

(DIN 51757)

Vapor density: not determined

Partitioning coefficient n- -0.46 (25°C) 77°F (OEC Guideline 107)

octanol/water (log Pow): Viscosity, dynamic: 1.661 mPa.s (25.00 °C) 77°F

Solubility in water: Literature data, miscible

Solubility (qualitative): miscible

Solvent(s): organic solvents

Molar mass: 99.13 g/mol

10. STABILITY & REACTIVITY

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

Strong acids, oxidizing agents.

Hazardous reactions:

Exothermic reaction. Reacts with strong acids and alkalies.

Reacts with oxidizing agents.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

Thermal decomposition:

Approx.. > 300°C / 572°F

No decomposition if used as directed. Prolonged thermal loading can result in products of degradation being given off. If products is heated above decomposition temperature toxic vapors may be released.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Not fire-propagating (other)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral:

Type of value: LD50 Species: rat (male/female)

Value: 4,150 mg/kg (OECD Guideline 401)

Literature data.

Inhalation:

Type of value: LC50 Species: rat (male/female)

Value: > 5.1m g/l (OECD Guideline 403) Exposure

time: 4 h

An aerosol was tested.

Limit concentration test only (LIMIT test). No mortality was observed.

Dermal:

Type of value: LD50 Species: rat (male/female)

Value: > 5,000 mg/kgn (OECD Guideline 402)

Literature data.

Irritation / corrosion

Skin:

Species: rabbit

Result: Slightly irritating. Method: Draize test

Literature data. The European Union (EU) has classified this substance with 'Irritating to skin" (R38).

Eye:

Species: rabbit Result: Irritant Method: Draize test

Sensitization

Mouse Local Lymph Node Assay (LLNA)

Species: Mouse Result: Non-sensitizing.

Method: OECD Guideline 429

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Repeated dose toxicity

Experimental/calculated data: rat by inhalation 2 Week 10 dose

rat by inhalation 2 Week 10 dose

rat by inhalation 2 Week 10 dose

Aspiration Hazard:

Not applicable

12. ECOLOGICAL INFORMATION

Fish

Acute:

static

Salmo gairdneri, syn. O. mykiss/LC50 (96 h): > 500 mg/l

The details of the toxic effect relate to the nominal concentration.

Chronic:

Study scientifically not justified.

Aquatic invertebrates

Acute:

DIN 38412 Part 11 static

Daphnia magna/EC50 (24 h): > 1,000 mg/l

The details of the toxic effect relate to the nominal concentration.

Chronic:

OECD Guideline 202, part 2 semistatic Daphnia magna (NOEC) 21 d 12.5 mg/l

The details of the toxic effect relate to the nominal concentration.

Aquatic plants

Toxicity to aquatic plants:

DIN 38412 Part 9 green algae/EC50 (72h): 500 mg/l

The details of the toxic effect relate to the nominal concentration.

Microorganisms

Toxicity to microorganisms:

DIN EN ISO 8192 aquatic

Activated sludge, industrial/EC50 (0.5 h): > 600 mg/l

The details of the toxic effect relate to the nominal concentration.

Degradability / Persistence

Biological / Abiological Degradation

Test method: OECD Guideline 301C;ISO 9408;92/69/EEC, C.4-F (aerobic), Inoculum conforming

to MITI

Method of analysis: BOD of the ThOD Degree of elimination: 73 % (28 d)

Evaluation: Readily biodegradable (according to OECD criteria).

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge substance/product into waterways or sewer systems.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. TRANSPORTATION INFORMATION

Land Transport:

USDOT Classified as combustible liquid in containers greater than 119 gallons.

Sea Transport:

IMDG Not classified as a dangerous good under transport regulations

Air Transport:

IATA/ICAO Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Skin and/or eye irritant; Combustible liquid: Chronic target organ effects reported

EPCRA 311/312 (Hazard categories): Fire; Chronic; Acute

EPCRA 313:

CAS NumberChemical name872-50-4N-Methylpyrrolidone

CERCLA RQCAS NumberChemical name100 LBS74-89-5Methylamine

State regulations

State RTKCAS NumberChemical nameMA, PA872-50-4N-Methylpyrrolidone

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. OTHER INFORMATION

NFPA Hazard codes:

Health: 2 Fire: 2 Reactivity: 0 Special:

HMIS III rating

Health: 2^m Flammability: 2 Physical hazard: 0

SDS Prepared by:

Technical Services

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