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Material Safety Data Sheet

Diocetyl Dimethyl Ammonium Chloride (80%) MSDS

Section 1: Chemical Product and Company Identification

Product name: Diocetyl Dimethyl Ammonium Chloride (80%)

Molecular formula: C₁₈H₄₀ClN

CAS No.: 5538-94-3

Molecular weight: 305.97

Synonyms: Dimethyldioctylammonium Chloride

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Section 2: Composition and Information on Ingredients

Chemical Name: Diocetyl Dimethyl Ammonium Chloride

Chemical Family: Quaternaries

Molecular Formula: (C₈H₁₇)₂N(CH₃)₂Cl

Common Name: DODAC

CAS#: 5538-94-3

Ingredient Name	CAS Number	Percent
Diocetyl dimethyl ammonium chloride	5538-94-3	80 %

Section 3: Hazards Identification

NFPA least=0, slight=1, moderate=2, high=3, extreme=4

Flammability: 0

Reactivity: 0

Health: 2

Hazard data: N/A

Class or division: N/A

Section 4: First Aid Measures

Flush skin and eye with plenty of water for at least 15 minutes while removing contaminated clothing. Get medical aid if irritation develops or persists. If swallowed, get medical aid.

Section 5: Fire and Explosion Data

Flash point: >100°C (closed-up flash point test)

Flammability: N

Hazardous combustion products: N/A

Means of extinction: N/A

Upper explosion limit (% by vol): N/A

Lower explosion limit (% by vol): N/A

Explosion sensitivity to impact: N/A

Chemical sensitivity to static discharge: N/A

Auto-ignition: N/A

Rate of burning: N/A

Explosive power: N/A

Tdg / whmis: non hazardous / e, d2b

Fire extinguishing materials:

Water spray, dry chemical, sandy soil, chemical foam or carbon dioxide, Special fire fighting procedures: incipient fire responders should wear eye protection and self-breathing apparatus.

Section 6: Accidental Release Measures

Mix with inert material (eg. Dry sand, vermiculite) and transfer to sealed container for disposal.

Section 7: Handling and Storage

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame, Store in a tightly closed container, Incompatibilities: oxidants, acids and food.

Section 8: Exposure Controls/Personal Protection

Recommended engineered controls: use with adequate ventilation.

Wear impervious protective clothing, rubber gloves, chemical safety goggles or filtering gas mask.

Section 9: Physical and Chemical Properties

Appearance: Colorless to light yellow liquid
Odor: weak penetrating odor
Flash point: >100°C (closed-up flash point test)
PH value: 5-9
Solubility in water: miscible
Vapor density: N/A
Evaporation rate (water=1): N/D
Specific gravity: N/D
Melting point or range °C: N/A
Boiling point: N/D
Vapor pressure, mm hg @ 20°C: N/A

Section 10: Stability and Reactivity Data

Stability: stable
Incompatible Materials: none known
Hazardous polymerization: will not occur

Section 11: Toxicological Information

Route of entry – skin contact: Y
Route of entry – skin absorption: N
Route of entry – eye contact: Y
Route of entry – inhalation: N
Route of entry – ingestion: Y
Reproductive effects: N
Carcinogenicity: N
Mutagenicity: N
Teratogenicity: N
TLV: N/D

Effects of overexposure:

Acute effects: Inhalation may be irritating. Irritation of mucous membrane of mouth and throat causing nausea abdominal pain and diarrhea if ingested.
Irritation of eyes and skin on contact.
Chronic effects: Repeated skin contact may lead to defatting dermatitis.

Section 12: Ecological Information

Environmental stability: This product should be stable under normal environmental conditions.
Effect of material on plants or animals: No direct effect have been submitted as harmful evidence to human consumption.
Effect of chemical on aquatic life: No evidence has proven it detrimental to marine life.

Section 13: Disposal Considerations

According to federal, provincial and municipal regulations.

Section 14: Transport Information

UN number:2922

UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S.

Transport hazard class: Class 8 + Class 6.1

Packing group: III

Section 15: Other Regulatory Information

Iecsc (CHINA)

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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