



Material safety date sheet

TA100

Company information

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Manufacturerfactory

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Section 1

Trade name :TA100

INCI name: DISTEARYLDIMONIUM CHLORIDE

Section 2: Composition/composition information

Composition	CAS No.	Percentage %
DISTEARYLDIMONIUM CHLORIDE	107-64-2	≥95.0
ALCOHOL	64-17-5	≤5.0

Section 3: Hazard Identification

Classification of the substance or mixture

Serious eye damage, Category 1

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1



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Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

GHS label elements, including precautionary statements

Pictogram(s)

Signal word

Danger



Hazard statement(s)

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/2026

P391 Collect spillage.

Storage

none

Disposal

P501 Dispose of contents/container to ...

Other hazards which do not result in classification

None

Section 4: First aid measures

Description of necessary first-aid measures



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General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest.

In case of skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower.

In case of eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

If swallowed

Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention .

Most important symptoms/effects, acute and delayed

no data available

Indication of immediate medical attention and special treatment needed, if necessary

Minimum/Potential Fatal Human Dose

Section 5: fire control measures

Extinguishing media

Suitable extinguishing media

Use water in large amounts, powder, alcohol-resistant foam, carbon dioxide.

Specific hazards arising from the chemical

no data available

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures



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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Vacuum spilled material with specialist equipment. If appropriate, moisten first to prevent dusting. Do NOT let this chemical enter the environment. Personal protection: particulate filter respirator adapted to the airborne concentration of the substance.

Methods and materials for containment and cleaning up

Section 7: processing and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8: exposure control and personal protection

Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment (PPE)



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Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

Section 9: physical and chemical information

appearance	White to light yellow powderd
color	White to light yellow
smell	Characteristic Odor
pH	5.0-7.0(1% Alcohol /Aqueous solution.)
Melting point °C	No date
Boiling Point	No date
Saturated vapor pressure	No date
Solubility	Water dissolve
Relative density	0.92



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Flash point (°C)	No date
Molecular formula	C ₃₈ H ₈₀ ClN
viscosity	No date
Relative molecular mass	586.5

Section 10: stability and reactivity

Reactivity: no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid: no data available

Incompatible materials: no data available

Hazardous decomposition products

When heated to decomposition it emits very toxic fumes of /nitrogen oxides and hydrogen chloride

Section 11: Toxicological Information

Acute toxicity

Oral: LD50 Rat oral 11,300 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization



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no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

Section 12: ecological information

Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

Persistence and degradability

AEROBIC: DISTEARYLDIMONIUM CHLORIDE biodegradation in river water was found to take place in approximately 5 days with degradation occurring faster in river water containing higher levels of sediments and suspended solids(1). DISTEARYLDIMONIUM CHLORIDE degradation in rapid creek river water, in Rapid City, SD, was measured with a half life of 4.9-13.8 days(3). In an OECD screening test, at a 2.5 mg/l concentration, DISTEARYLDIMONIUM CHLORIDE degradation reaches over 90% in 2-4 days and at 10 mg/l concentration, a Zahn-Wellen test found degradation is nearly complete in 10 days(2). A 91-95%



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DISTEARYLDIMONIUM CHLORIDE removal rate was observed in a continuous flow activated sludge system(4).

Bioaccumulative potential

An estimated BCF of 71 was calculated for DISTEARYLDIMONIUM CHLORIDE(SRC), using a log Kow of 3.80(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low.

Mobility in soil

The Koc ofDISTEARYLDIMONIUM CHLORIDE is estimated as $1 \times 10^{+10}$ (SRC), using a log Kow of 3.80(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that DISTEARYLDIMONIUM CHLORIDE is expected to be immobile in soil.

Other adverse effects

no data available

Section 13: Handling precautions

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14: Transportation Information

UN Number

ADR/RID: UN3077

IMDG: UN3077

IATA: UN3077



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UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: yes IMDG: yes IATA: yes

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

Section 15: Regulatory Information

Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
DISTEARYLDIMONIUM CHLORIDE	DISTEARYLDIMONIUM CHLORIDE	107-64-2	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.



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Vietnam National Chemical Inventory	Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.

Section 16: Additional information

This safety technical specification is based on the latest information we know about the safety and correct use of this product so far. Because Guangzhou diaoling new material LTD can't predict and control the situation of this product in actual use, every user should read this instruction carefully before using this product. For more information to ensure correct evaluation, please contact our company.