

Safety Data Sheet: N,N-Dimethyl(octan/decan)amides

1. Identification

Product	N,N-Dimethyl(octan/decan)amides; CAS 308062-09-1; EC 909-125-3 (C8/C10 reaction mass)
Use	C8/C10 fatty dimethylamide blend for selected agrochemical and industrial solvent formulations.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for N,N-Dimethyl(octan/decan)amides. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Skin irritation Category 2; serious eye damage Category 1; respiratory irritation Category 3; acute aquatic hazard Category 2.
Signal word / symbols	Danger; GHS05, GHS07
Hazard statements	H315: irritates skin. H318: causes serious eye damage. H335: may irritate the respiratory tract. H401: toxic to aquatic life.
Prevention	Use adequate ventilation; avoid inhaling mist. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Commercial C8/C10 dimethylamide blend, CAS 308062-09-1. Dimethyloctanamide CAS 1118-92-9 and dimethyldecanamide CAS 14433-76-2 are the reference constituents; their proportions are not established for this supply. ECHA List 909-125-3 identifies the C8/C10 reaction mass rather than an individual pure substance.
Supply grade	Total amides ≥98.5%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

Inhalation	Move to fresh air and obtain medical help if symptoms occur.
Skin	Remove contaminated clothing and wash with plenty of water.
Eyes	Rinse immediately with running water for at least 15 minutes. Remove contact lenses if easy; continue rinsing and obtain urgent medical attention.
Ingestion	Rinse mouth; do not induce vomiting. Seek prompt medical assessment.
Effects	Serious eye damage requires urgent treatment; protect rescuers from exposure.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Carbon oxides, nitrogen oxides and hydrogen cyanide can be generated under fire conditions.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and mist exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Stop the leak if safe. Absorb liquid with a compatible inert material and collect in closed labelled containers. Do not wash into drains.

7. Handling and Storage

Handling	Use closed transfers and effective ventilation. Wear compatible chemical gloves, sealed splash goggles and face protection where splashing is possible; keep eyewash facilities immediately available.
Storage	Keep tightly closed in a cool, dry, ventilated warehouse away from sunlight, heat, ignition sources and oxidizers.
Incompatibilities	Strong oxidizing agents.

8. Exposure Controls / Personal Protection

Engineering controls	Use effective local ventilation and closed transfers; control dust or vapour at its source.
Hands and eyes	Use closed transfers and effective ventilation. Wear compatible chemical gloves, sealed splash goggles and face protection where splashing is possible; keep eyewash facilities immediately available.
Respiratory protection	Use a properly assessed respirator if engineering controls cannot maintain suitable exposure conditions.
Hygiene	Wash hands after handling; keep eyewash facilities available and exclude food and drink from work areas.

9. Physical and Chemical Properties

Appearance, supply	Colourless to yellowish transparent liquid
Composition type	Mixture of C8/C10 fatty dimethylamides; no single molecular formula or molecular weight applies.
Total amides, supply	≥98.5%
Water, supply	≤0.30%
Flash point, reference	118°C, Pensky-Martens closed cup
Density, reference	0.879–0.884 g/cm ³ at 25°C
Viscosity, reference	11 cP; reference properties are not supply guarantees.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents.
Decomposition	Carbon oxides, nitrogen oxides and hydrogen cyanide can be generated under fire conditions.

11. Toxicological Information

Exposure effects	Direct contact or inhalation can cause the effects stated in the hazard section; seek medical advice after significant exposure.
Reference classification	Skin irritation Category 2; serious eye damage Category 1; respiratory irritation Category 3; acute aquatic hazard Category 2.
Toxicological data	The reference does not provide complete numerical acute or chronic toxicity data for the supplied grade. No absence of effects is inferred.

12. Ecological Information

Environmental effects	Prevent discharge to soil, drains and receiving water. Retain cleanup waste; the reference does not establish complete environmental fate data for the supplied grade.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	DOT, IMDG and IATA: not regulated as dangerous goods in the matched full reference.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	N,N-Dimethyl(octan/decan)amides; CAS 308062-09-1; EC 909-125-3 (C8/C10 reaction mass)
HS reference	292419; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H315: irritates skin. H318: causes serious eye damage. H335: may irritate the respiratory tract. H401: toxic to aquatic life.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.3; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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