

Dimethyl Formamide

Product Stewardship Summary

Chemical Name:	Dimethyl Formamide
Synonyms:	N-Formyldimethylamine, N,N-Dimethylformaldehyde, Dimethyl Formamide, DMF
CAS Number:	68-12-2
EC (EINECS) Number:	200-679-5
Revision number:	1-2026

- **Chemical identification and uses:** Dimethyl formamide is a clear, colorless liquid with a slightly fishy-amine odor and is highly soluble in water and many other organic solvents. Due to its physicochemical properties, both this liquid and its vapors are flammable. In contact with fire, dimethyl formamide can decompose to release hazardous carbon oxides, nitrogen oxides and dimethylamine. Dimethyl formamide is used primarily in industrial and commercial applications as a solvent, additive or intermediate. It is used in the manufacture of films, acrylic fibers, plastics, and other types of surface coatings that are frequently incorporated into the manufacture of aerospace and electronic instruments.
- **Potential exposures:** Exposure to dimethyl formamide occurs primarily in occupational settings. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce exposure. Workplace exposure limits for Dimethyl Formamide have been established for use in worksite safety programs. See the Safety Data Sheet (SDS) for additional information. Users of products containing dimethyl formamide should follow manufacturer's use and/or label instructions.
- **Human Health hazards:** Dimethyl formamide can be harmful if inhaled and can be absorbed through the skin. Dimethyl formamide can cause serious eye irritation. Based on animal studies, dimethyl formamide may cause infertility in men, be toxic to a fetus, and cause birth defects. Dimethyl formamide is considered a potential human carcinogen. One should refer to See the Safety Data Sheet (SDS) for additional information and any protective information.
- **Environmental Health hazards:** Dimethyl formamide is not classified as toxic to aquatic organisms. It is readily biodegradable and is unlikely to bioaccumulate.
- Please contact us at PSCustomerCare@Solstice.com for more information. Additional information on this chemical may also be found at the following links:

Dimethyl Formamide - [Pubchem](#)

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.