



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORMAMIDE

CAS Number: 75-12-7

1. IDENTIFICATION:

Product Code : 93434, 92660, 94064, 96007, 96529, 98241

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification**

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

**Specific target organ
toxicity - repeated
exposure, Oral** : Category 2

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement : Suspected of causing cancer.
May damage the unborn child.
May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a poison center or doctor/physician.



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Storage	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Formamide	75-12-7	NLT 98.0%	Yes

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Inhalation	: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	: The most important known symptoms and effects are described in the labelling.
Most important symptoms/effects, acute and delayed	: No data available.
Indication of immediate medical attention and special treatment needed	

5. FIRE FIGHTING MEASURES:**General information****Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media	: Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	: For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	Carbon oxides, Nitrogen oxides (NOx), Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Special protective equipment and precautions for firefighters	



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Special firefighting procedures	:	Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Keep unauthorized personnel away.
Methods and material for containment and cleaning up	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools.
Notification Procedures	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. Protect material from direct sunlight. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Appropriate engineering controls	:	No data available
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Individual protection measures, such as personal protective equipment

General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	:	Wear safety glasses with side shields (or goggles).
Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear, colorless liquid
Odor	: Odorless
Solubility	: Miscible in water.
Formula	: CH ₃ NO
Molecular Weight	: 45.05 g/mol
Density	: 1.132 - 1.135 g/cm ³ at 20°C
pH	: 4 at 20°C
% Volatiles by volume @ 21C (70F)	: No data available
Boiling Point	: 210°C
Melting Point	: 2-3°C
Flash Point	: 152 °C
Relative vapor density (Air=1)	: 1.56
Vapor Pressure (mm Hg)	: 0.08 @ 20°C
Evaporation Rate (BuAc=1)	: No data available

10. STABILITY AND REACTIVITY:

Reactivity	: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	: Material is stable under ambient conditions.. Exothermic reaction with: Oxidizing agents, bases Risk of explosion with: furfuryl alcohol, Oxides of phosphorus, hydrogen peroxide, iodine with pyridine and Sulfur trioxide
Possibility of hazardous reactions	: A risk of explosion and/or of toxic gas formation exists with the following substances: water separating agents Possible formation of: Hydrogen cyanide (hydrocyanic acid)
Conditions to avoid	: Heat, Strong heating.
Incompatible materials	: No data available
Hazardous decomposition products	: In the event of fire: see section 5



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11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Oral Product : LD 50 (Rat): 5.325 mg/kg

Dermal Product : LD 50 (Rat): 3.000 mg/kg

Inhalation Product : LC 50 (Rat): 21 mg/l

Repeated dose toxicity Product : No data available.

Skin corrosion/irritation Product : No skin irritation

Serious eye damage/eye irritation Product : slight irritation

Respiratory or skin sensitization Product : No data available.

Carcinogenicity Product : Suspected of causing cancer.

Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: in vitro test

Test system: Other cell types

Metabolic activation: without metabolic activation

Result: positive

Test Type: in vitro test

Test system: Embryo

Metabolic activation: without metabolic activation

Result: negative

: Test Type: In vivo micronucleus test

Species: Mouse

Cell type: Red blood cells (erythrocytes)

Application Route: Oral

Result: negative

Test Type: In vivo micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Result: positive

Test Type: Genotoxicity in vivo

Species: Drosophila melanogaster

Application Route: Intraperitoneal injection



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Result: negative
Test Type: dominant lethal test
Species: Mouse Application
Route: Intraperitoneal injection
Result: negative

Reproductive toxicity Product : May damage the unborn child.
Specific target organ toxicity - single exposure Product : No data available.
Specific target organ toxicity - repeated exposure Product : Oral - May cause damage to organs through prolonged or repeated exposure. - Blood
Aspiration hazard Product : No data available.
Other effects : None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : static test LC50 - Leuciscus idus (Golden orfe) - 6.569 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates : static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h
Toxicity to algae : static test ErC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 96 h
Toxicity to bacteria : static test EC50 - activated sludge - > 1.000 mg/l - 30 min

Chronic hazards to the aquatic environment

Fish Product : No data available.
Aquatic invertebrates Product : No data available.
Toxicity to Aquatic Plants Product: : No data available.
Persistence and degradability
Biodegradation Product : Readily biodegradable.
BOD/COD ratio Product : No data available.
Bioaccumulative potential
Bioconcentration factor (BCF) Product : No data available on bioaccumulation.



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Partition coefficient n-octanol / water (log Kow) : No data available.

Product Mobility in soil : No data available.

Other adverse effects : When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected. Discharge into the environment must be avoided.
Adsorbed organic bound halogens (AOX): Product does not contain any organic halogens.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	NA	Formamide		Not dangerous goods	
IMDG	NA	Formamide		Not dangerous goods	
IATA	NA	Formamide		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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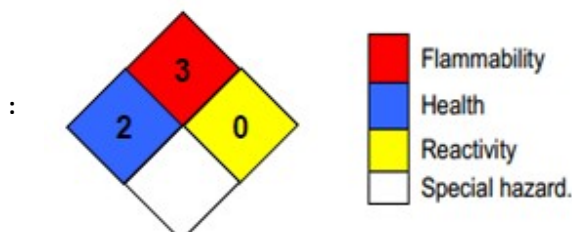
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 10/09/2026

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