



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: FLAVINE ADENINE DINUCLEOTIDE
SODIUM SALT**

CAS Number: 146-14-5

1. IDENTIFICATION:

Product Code : 92534

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,
NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.

E-mail : sales@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number : +91 77770 84837

2. HAZARDS IDENTIFICATION:

Hazard classification : Not a hazardous substance or mixture according to Regulation.

Physical hazards : Not a hazardous substance or mixture according to Regulation.

Labels elements : Not a hazardous substance or mixture according to Regulation.

Signal word : Not a hazardous substance or mixture according to Regulation.

Hazard statement : Not a hazardous substance or mixture according to Regulation.

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.

Storage : Preserve in air-tight container under inert atmosphere and store at -20°C and away from light & moisture for long term usage.

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 : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.



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3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Flavine Adenine Dinucleotide Sodium Salt	146-14-5	NLT 95.0%	No

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.
Inhalation	:	Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Skin contact	:	Get medical attention if symptoms persist.
Eye contact	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Indication of immediate medical attention and special treatment needed	:	Toxic if inhaled. Irritating to eyes, respiratory system and skin.
	:	Symptoms may be delayed. Treat symptomatically.

5. FIRE FIGHTING MEASURES:**General information** : No data available**Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** : Foam, dry powder or carbon dioxide.**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.**Special protective equipment and precautions for firefighters****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. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.**Methods and material for containment and cleaning** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.



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up	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
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. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. 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	: Preserve in air-tight container under inert atmosphere and store at -20°C and away from light & moisture for long term usage.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Appropriate engineering****controls** : No data available**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. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
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	: Orange crystalline powder.
Odor	: No data available
Solubility	: No data available
Formula	: $C_{27}H_{31}N_9O_{15}P_2Na_2 \cdot 2H_2O$
Molecular Weight	: 865.55 g/mol
Specific Gravity	: No data available
pH	: No data available
% Volatiles by volume @ 21C (70F)	: No data available
Boiling Point	: No data available
Melting Point	: No data available
Flash Point	: No data available
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: No data available
Evaporation Rate (BuAc=1)	: No data available

10. STABILITY AND REACTIVITY:

Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	: Material is stable under ambient conditions.
Possibility of hazardous reactions	: Violent reactions possible with: Strong oxidizing agents.
Conditions to avoid	: No data available.
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)****Inhalation Product** : No data available.**Repeated dose toxicity
Product** : No data available.**Skin corrosion/irritation
Product** : No data available.**Serious eye damage/eye
irritation Product** : No data available.**Respiratory or skin
sensitization Product** : No data available.**Carcinogenicity Product** : No data available.**IARC Monographs on the
Evaluation of Carcinogenic
Risks to Humans** : No data available.**US. National Toxicology
Program (NTP) Report on
Carcinogens** : No data available.**US. OSHA Specifically
Regulated Substances (29
CFR 1910.1001-1050** : No data available.**Germ cell mutagenicity** : No data available.**In vitro Product** : No data available.**Reproductive toxicity
Product** : No data available.**Specific target organ
toxicity - single exposure
Product** : No data available.**Specific target organ
toxicity - repeated
exposure Product** : No data available.**Aspiration hazard Product** : No data available.**Other effects** : None known.



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

Fish Product : No data available.

**Aquatic invertebrates
Product** : No data available.

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 : No data available.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

**Bioconcentration factor
(BCF) Product** : No data available.

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

Mobility in soil : No data available

Other adverse effects : Discharge into the environment must be avoided.

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.



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14. TRANSPORT INFORMATION:

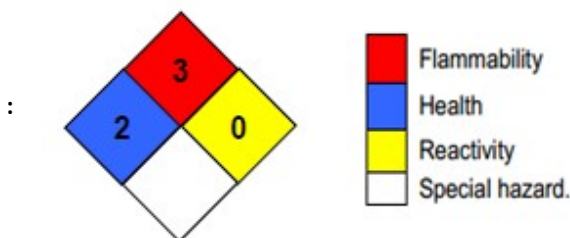
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	NA	Flavine Adenine Dinucleotide Sodium Salt	NA	Not dangerous goods	NA
IMDG	NA	Flavine Adenine Dinucleotide Sodium Salt	NA	Not dangerous goods	NA
IATA	NA	Flavine Adenine Dinucleotide Sodium Salt	NA	Not dangerous goods	NA

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.

16. OTHER INFORMATION:

NFPA Hazard ID



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

Issue Date : 05/07/2026

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