



SAFETY DATA SHEET

Preparation Date: No data available Revision Date: 05/26/2015 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: 13041

Product Name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT, HYDRATE

Other means of identification

Synonyms: Disodium IMP

Disodium inosinate Disodium 5'-inosinate

Disodium inosine 5'-monophosphate Disodium inosine 5'-phosphate

IMP disodium salt 5'-Imp disodium salt IMP sodium salt

Inosine 5'-monophosphate disodium Inosin-5'-monophosphate disodium

Sodium inosinate Sodium 5'-inosinate

CAS #: 4691-65-0
RTECS # NM7519500
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified		

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Inosine 5'-Monophosphate Disodium Salt, Hydrate 4691-65-0	4691-65-0	100	*

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126).

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause eye irritation. May cause digestive (gastrointestinal) tract

irritation. May cause hypermotility, diarrhea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

Dry chemical. Carbon dioxide (CO2). Water spray. Foam.

Product name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT, HYDRATE Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides, Phosphate oxides, Sodium

oxides, some metallic oxides

Specific hazards: May be combustible at high temperatures

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid breathing dust. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Avoid dust formation. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Avoid dust formation. Do not ingest. Do not smoke. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep refrigerated. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store above 8°C/46.4°F. Keep away from heat and sources of ignition. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Bases. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Inosine 5'-Monophosphate Disodium	None	None	None	None
Salt, Hydrate				
4691-65-0				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Inosine 5'-Monophosphate Disodium	None	None	None	None
Salt, Hydrate				
4691-65-0				

Australia and Mexico

Components	Australia	Mexico
Inosine 5'-Monophosphate Disodium	None	None
Salt, Hydrate		
4691-65-0		

Appropriate engineering controls

Engineering measures to reduce exposure:Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: I3041

Eye protection: Safety glasses with side-shields

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to the

substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering

controls are not feasible. Be sure to use an approved/certified respirator or

equivalent. .

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color: Solid. Crystals. White.

Odor: Taste Molecular/Formula weight:

No information available No information available 392.17

Formula: Flammability: Flash point (°C):
C10H11N4O8PNa-H2O No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%):

No information available. Not available No information available

Upper Explosion Limit (%): Autoignition Temperature (°C/°F): pH:

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

175°C/347°F No information available No information available

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

Density (g/cm3): Evaporation rate: Vapor density:

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available

Viscosity: Miscibility: Solubility:

No information available Soluble in cold water

Insoluble in Ether

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents, bases, and reducing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents. Bases. Reducing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Metallic oxides. Sodium oxides.

Other Information

Product code: 13041

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT,

HYDRATE

Principal Routes of Exposure:

Inhalation. Ingestion.

Acute Toxicity

Component Information

Inosine 5'-Monophosphate Disodium Salt, Hydrate - 4691-65-0

LD50/oral/rat = 15900 mg/kg Oral LD50 Rat

LD50/oral/mouse = 12000 mg/kg

LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 5400 mg/kg Intrap. LD50 Mouse

4850 mg/kg Intrap. LD50 Rat 2730 mg/kg Intrav. LD50 Mouse 5480 mg/kg Sub. LD50 Mouse 3900 mg/kg Sub. LD50 Rat

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 15900mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 12000mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas** = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May

affect behavior/central nervous system (convulsions/seizures, somnolence),

respiration(dyspnea).

Aspiration hazard No information available

Product name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT, HYDRATE

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the urinary system. Prolonged or

repeated ingestion may affect the spleen.

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Inosine 5'-Monophosphate Disodium Salt, Hydrate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity

No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Product code: I3041 Product name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT, HYDRATE

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Inosine 5'-Monophosphate Disodium Salt, Hydrate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available No information available Subsidiary Risk: No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

Product code: 13041

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:

No information available

14. TRANSPORT INFORMATION

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Inosine 5'-Monophosphate Disodium Salt, Hydrate	Present	Not present	Present	Present (8)- 276	Present	Present	Present 225-146-4

U.S. Regulations

Inosine 5'-Monophosphate Disodium Salt, Hydrate

FDA - Direct Food Additives 21 CFR 172.535

FDA - 21 CFR - Total Food Additives 155.120 155.130 155.170 155.200 155.201 170.60 172.535

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
Inosine 5'-Monophosphate Disodium Salt, Hydrate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

•	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Inosine 5'- Monophosphate Disodium Salt, Hydrate	None	None	None	None	None

U.S. TSCA

Product code: 13041

Product name: INOSINE 5-MONOPHOSPHATE DISODIUM SALT, HYDRATE

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Inosine 5'-Monophosphate Disodium	Not Applicable	Not Applicable
Salt, Hydrate		

Canada

WHMIS hazard class:

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Inosine 5'-Monophosphate Disodium	Present	Not Listed
Salt, Hydrate		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Inosine 5'-Monophosphate Disodium	Not listed	Not listed
Salt, Hydrate		

EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Inosine 5'-Monophosphate Disodium		No information	
Salt, Hydrate			

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: 13041

None.

16. OTHER INFORMATION

Revision Date: 05/26/2015
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet