



SAFETY DATA SHEET

Preparation Date: 04/16/2015 Revision date 5/3/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: S1109

Product Name: SODIUM HYPOPHOSPHITE, FCC

Other means of identification

Phosphinic acid, sodium salt, monohydrate Synonyms:

> Fosfornan sodny (Czech) Sodium phosphinate hydrate Sodium phosphinate monohydrate

CAS #: 10039-56-2 SZ5640000 RTECS# CI#: Not available

Recommended use of the chemical and restrictions on use

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

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 number Chemtrec 1-800-424-9300

Contact Person: Tom Tyner (USA - West Coast) **Contact Person:** Ibad Tirmiz (USA - 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

Product code: S1109 Product name: SODIUM Page 1/11 HYPOPHOSPHITE, FCC

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Sodium Hypophosphite	10039-56-2	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water. Get medical attention if irritation

develops.

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

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. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

Symptoms May cause slight skin irritation

May cause slight eye irritation

May cause irritation of respiratory tract May cause gastrointestinal disturbances

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: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products If it is involved in a fire the following can be released:.

Phosphine.

Specific hazards No information available.

Product code: S1109 Product name: SODIUM Page 2 / 11 HYPOPHOSPHITE, FCC

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: Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid

breathing dust.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

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

spreading.

Methods for cleaning upUse appropriate tools to put the spilled solid in a suitable waste disposal container.

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. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. 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:

Deliquescent. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents
Potassium Chlorate (KCIO3)
Sodium chlorite
Potassium nitrate
Sodium nitrate
Iodine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: S1109 Product name: SODIUM Page 3/11

HYPOPHOSPHITE, FCC

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Hypophosphite	10039-56-2	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Hypophosphite	10039-56-2	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Sodium Hypophosphite	10039-56-2	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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

Eye protection: Safety glasses with side-shields. or Goggles

Skin and body protection: Long sleeved clothing

Gloves

Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. 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

Physical state: Appearance: Color: Solid Crystalline powder. Granular powder. White.

Granules.

Odor:TasteFormulaOdorless.Saline.NaH2PO2-H2O

Molecular/Formula weight (g/mole): Flammability (solid, gas)
105.99 g/mol

no data available

Flashpoint (°C/°F):

No information available

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

Not available No information available No information available

Product code: S1109 Product name: SODIUM Page 4/11 HYPOPHOSPHITE, FCC

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Density (g/cm3):

Viscosity:

No information available

Vapor pressure @ 20°C (kPa):

No information available 90 °C/194 °F No information available

Boiling point/range(°C/°F): **Bulk density:**

No information available No information available No information available

Specific gravity:

No information available 8.0 6.0-8.0 (50g/l solution a 25 deg. C)

Evaporation rate: Vapor density:

VOC content (q/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient No information available (n-octanol/water):

No information available

Miscibility: Solubility:

No information available Freely soluble in glycerol

Slightly soluble in Ethanol

Insoluble in Ether

Solubility in water: Soluble in 1 part water, 0.15 part boiling water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong oxidizing agents

Explosions can occur when hot Sodium Hypophosphite solution is evaporated. Potentially explosive reaction with oxidants (e.g. chlorates, nitrates). A mixture of Sodium Nitrate or Potassium Nitrate and Sodium Hypophosphite is potentially explosive. Mixture of Sodium Hypophosphite and chlorates or nitrates will explode if moistened, then dried slowly over flame. Sodium hypophosphite decomposes when heated forming phosphine, a spontaneously flammable gas.

Chemical stability

Stability: Deliquescent. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Excess Heat. Incompatible materials. Exposure to moisture. Exposure to moist air. Conditions to avoid:

Strong oxidizing agents **Incompatible Materials:**

Potassium Chlorate (KClO3)

Sodium chlorite Potassium nitrate Sodium nitrate

lodine

Hazardous decomposition

products:

Sodium oxides. Phosphorus oxides and/or phosphine.

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product code: S1109 Product name: SODIUM **Page** 5/11 HYPOPHOSPHITE, FCC

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Hypophosphite

CAS No 10039-56-2

LD50/oral/rat = 7640 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = 7640 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = 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 Low hazard. Health injuries are not known or expected under normal use.

Aspiration hazard No information available.

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

Product code: S1109 Product name: SODIUM Page 6 / 11 HYPOPHOSPHITE, FCC

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Hypophosphite	10039-56-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure Target Organs: No information available. 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 in soilNo information availableOther adverse effectsNo 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:

Product code: S1109 Product name: SODIUM Page 7/11

HYPOPHOSPHITE, FCC

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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
		wastes	wastes	wastes	wastes
Sodium Hypophosphite	10039-56-2	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

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

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available

Product code: S1109 Product name: SODIUM Page 8 / 11 HYPOPHOSPHITE, FCC

Subsidiary Risk: No information available Packing Group: No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements
No information available
No information available
No information available
No information available

Response

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Sodium Hypophosphite	10039-56-2	Not Listed	Not present	Present	Present (1)-413	Present	Present	Not present

U.S. Regulations

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Sodium Hypophosphite	10039-56-2	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium Hypophosphite	10039-56-2	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Sodium Hypophosphite	10039-56-2	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

Product code: S1109 Product name: SODIUM Page 9 / 11 HYPOPHOSPHITE, FCC

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Sodium Hypophosphite	10039-56-2	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances	
Sodium Hypophosphite	10039-56-2	Not listed	
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
Sodium Hypophosphite	10039-56-2	Not listed	

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Hypophosphite	10039-56-2	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
Sodium Hypophosphite	10039-56-2		No information	

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

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date: 04/16/2015 **Revision date** 5/3/2019 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

Product code: S1109 Product name: SODIUM Page 10 / 11

HYPOPHOSPHITE, FCC

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End of Safety Data Sheet

Product code: S1109

Product name: SODIUM Page 11 / 11 HYPOPHOSPHITE, FCC