

Sodium hypophosphite

Safety Data Sheet

Section 1: Identification

1.1 Identification

Product Name : Sodium hypophosphite hydrate
Product Code : ELNP-RA2A-100A-01

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Reducing agent, electroless plating

1.3 Details of the supplier of the safety data sheet

Nano3D Systems LLC
1110 NE Circle Blvd., ATAMI/Bldg. 11
Corvallis, OR 97330

1.4 Emergency telephone number

Emergency number Chemtrec : 800-424-9300

Section 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

NONE

2.4 Unknown acute toxicity (GHS US)

No additional information available

Section 3: Composition/information on ingredients

3.1 Substance

Formula : $\text{H}_2\text{NO}_2\text{P} \cdot \text{xH}_2\text{O}$
Molecular weight : 87.98 g/mol
CAS-No. : 123333-67-5
EC-No. : 231-669-9

No components need to be disclosed according to the applicable regulations

Section 4: First Aid Measures

Sodium hypophosphite

Safety Data Sheet

4.1 Description of first aid measures

Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin contact	: Wash off with soap and plenty of water.
Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	: No information available
Skin contact	: No information available
Eye contact	: No information available
Ingestion	: No information available

4.3 Indication of any immediate medical attention and special treatment needed

No further information available

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: None

5.2 Special hazards arising from the substance or mixture

Fire hazard	: Oxides of phosphorus, Sodium oxides
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5.3 Advice for firefighters

Protection during firefighting	: Wear self-contained breathing apparatus for firefighting if necessary.
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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel	: Avoid dust formation. Avoid breathing vapors, mist or gas.
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Sodium hypophosphite

Safety Data Sheet

6.1.2 For emergency personnel

: No additional information available

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

: Avoid Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible Solids.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

: General industrial hygiene practice.

Hand protection

: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Sodium hypophosphite

Safety Data Sheet

Eye/face protection	: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: Handle with gloves. Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	No special environmental precautions required.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Solid
Odor	: No information available
Odor threshold	: No information available
pH	: No information available
Melting point	: No information available
Freezing point	: No information available
Boiling point	: No information available
Flash point	: No information available
Relative evaporation rate (butyl acetate = 1)	: No information available
Flammability (solid, gas)	: No information available
Explosion limits	: No information available
Explosive properties	: No information available
Vapor pressure	: No information available
Relative density	: No information available
Water Solubility	: No information available
Partition coefficient: n-octanol/water	: No information available
Auto-ignition temperature	: No information available
Decomposition temperature	: No information available
Viscosity	: No information available
Viscosity, kinematic	: No information available
Viscosity, dynamic	: No information available
Oxidizing properties	: No information available

Sodium hypophosphite

Safety Data Sheet

9.2 Other information

No further information available

Section 10: Stability and reactivity

10.1 Reactivity

No information available

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In event of fire: see section 5.

Section 11: Toxicological information

11.1 Control parameters

Acute toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity IARC:	No component of this product present at levels greater than or equal 0.1% is identified as a known or anticipated carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal 0.1% is identified as a known or anticipated carcinogen by ACGIH.
NTP	: NTP, No component of this product present at levels greater than or equal 0.1% is identified as a

Sodium hypophosphite

Safety Data Sheet

known or anticipated carcinogen by NTP.

OSHA

OSHA, No component of this product present at levels greater than or equal 0.1% is identified as a known or anticipated carcinogen by OSHA.

Reproductive toxicity : No information available

Specific target organ toxicity (single exposure) : No information available

Specific target organ toxicity (repeated exposure) : No information available

Aspiration hazard : No information available

Additional information

RTECS: Not available

Section 12: Ecological information

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.4 Other adverse effects

No information available

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14: Transportation information

14.1 Transportation information

Department of Transportation (DOT)

Not dangerous goods

Sodium hypophosphite

Safety Data Sheet

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15: Regulatory information

15.1 US Federal regulations

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components

	CAS-No.	Revision Date
Sodium phosphinate hydrate	123333-67-5	

New Jersey Right to Know Components

	CAS-No.	Revision Date
Sodium phosphinate hydrate	123333-67-5	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other information

SDS Preparation date: January 10, 2018 **Supersedes previous version:** New SDS

This SDS contains revisions in the following sections(s): Not applicable. New SDS.

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End of Safety Data Sheet