Safety Data Sheet (SDS)

1. Chemical and Company Information

Chemical Name	
Product Name	Sodium iodide
Product Code	
Company Profile	
Name of Supplier	GODO SHIGEN CO., LTD.
Department in charge	Sales department
Address	No.1545-1, NANAIDO, CHOSEI-MURA, CHOSEI-GUN, CHIBA-PREF, 299-4333, JAPAN
Telephone Number	0475-32-2302
Fax Number	0475-32-1115
e-mail Address	sales@godoshigen.co.jp
Emergency Phone Number	GODO SHIGEN CO., LTD. Sales department 0475-32-2302
Recommended Use	General industrial use
Restrictions on use	Do not use for any purposes other than those listed above.

2. Hazards Identification

GHS Classification	
Physio-chemical Hazards	Classification not possible
Health Hazards	
Serious eye damage/ Eye irritation	Category 2B
Reproductive toxicity	Category 1B
Reproductive toxicity/effects on lactation or via lactation	Additional category
Specific target organ toxicity (single exposure)	Category 1 (thyroid)
Specific target organ toxicity (repeated exposure)	Category 1 (skin, thyroid, systemic toxicity)
Environmental hazards	Classification not possible

GHS Label Elements

Pictogram

Signal Word	Danger
Hazard Information	Eye irritation May damage fertility or the unborn child Damage to skin, thyroid, and systemic toxicity due to long-term or repeated exposure.
Precautionary Statements	
[Safety Measures]	Avoid contact with eyes and skin and wear appropriate protective equipment as necessary to prevent inhalation of dust/mist. Wash hands thoroughly after handling. Do not eat, drink or smoke while using this product. Wear protective gloves/protective clothing/eye protection/face protection.
[First Aid Measures]	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists, get medical advice/attention.
[Storage]	Store locked up.
[Disposal]	Dispose of contents and containers via an industrial waste disposer licensed by the prefectural governor.

3. Composition and Information on Ingredients

Classification of Chemical Substance or Mixture

Chemical substance

Composition and Information on Ingredients

Chemical Name or General Name Sodium iodide
Chemical Properties (Chemical formula): NaI
Content: ≥ 99.5 %
CAS No. 7681-82-5
Reference Number in Gazetted List in Japan: The Chemical Substance Control Law: 1-442
Industrial Safety and Health Act: Announced chemical substance by public notice

4. First Aid Measures

First aid measures by exposure route

IF INHALED	Remove victim to fresh air and keep at rest. Get medical attention. If necessary, apply artificial respiration or give oxygen.
IF ON SKIN	Immediately rinse the affected area thoroughly with plenty of water.
IF IN EYES	Rinse cautiously with water for several minutes. Remove

	contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a doctor/physician.
IF SWALLOWED	Immediately induce vomiting by drinking water or saline solution. Get medical attention if necessary.

Precautions Necessary to Protect the First-aid Provider

Rescuers should wear eye and skin protection appropriate for the situation.

5. Firefighting Measures

Suitable Extinguishing Media

Use water spray, powder or foam fire extinguishers, or carbon dioxide, according to fire in the surroundir

Unsuitable Extinguishing Media

Avoid using direct straight stream water. It may cause the fire to spread to the surrounding area.

Specific Hazards in the Case of Fire

Although the product itself is non-flammable, it contains iodine (I) molecules and may emit irritating or toxic fumes (or gases) in the event of a fire.

Particular Firefighting Methods

Extinguish the fire from the windward side.
Access to the area around the fire should be restricted to authorized persons only.
Move containers away from the fire area if it is safe to do so.

Special Protective Equipment and Precautions for Fire Fighters

Appropriate protective equipment and fire-resistant clothing should be worn when conducting fire-fighting operations.

6. Accidental Release Measures

Precautions for Personal Protection, Protective Equipment and Emergency Measures

Prohibit unauthorized persons from entering the area.
Workers should wear appropriate protective equipment (See 8. Exposure Controls and Personal Protection) to prevent contact with eyes or skin or inhalation.
Ventilate enclosed rooms before entering.

Environmental Precautionary Statements

Avoid discharging into the environment. May have an impact on the surrounding environment.

Methods and Material for Containment and Cleaning up

Sweep up spills and collect in an empty container.
Prevent entry into drains, sewers, basements, or confined areas.

Secondary Disaster Prevention Measures

Eliminate all ignition sources immediately (no smoking, sparks or open flames in the vicinity)
Cover with a plastic sheet to prevent scattering.

7. Handling and Storage Precautions

Handling

Technical measures	Perform local or general exhaust ventilation as described in "8. Exposure Controls and Personal Protection" and wear protective equipment if necessary.
Precautions for Safe Handling	Do not breath dust, fumes, vapor, or spray.

Contact Avoidance	See "10. Stability and Reactivity".
Hygiene Measures	Wash hands and eyes thoroughly after handling. Do not eat, drink or smoke while using this product.

Storage

Technical measures	Install necessary lighting and ventilation equipment in areas where dangerous or harmful substances are stored or handled.
Prohibited Contact Substances	See "10. Stability and Reactivity".
Storage Conditions	Store locked up. Avoid direct sunlight, keep tightly closed, and store in a cool, dark place.
Safe container packaging material	Glass, polyethylene, polypropylene, etc.

8. Exposure Controls and Personal Protection

Permissible concentration (exposure limit, biological exposure index)

Japan Society for Occupational Health (2021)	2 mg/m3 (Class 3 dust [other inorganic or organic dust], respirable dust) 8 mg/m3 (Class 3 dust [other inorganic or organic dust], total dust)
ACGIH TLV- TWA (2021)	0.01ppm (Iodine and Iodides as inhalable fraction and vapor)

Equipment Measures

Always use closed devices and equipment or local ventilation systems in work places where dust is generated.

Protective equipment

Respiratory protective equipment	Wear an anti-dust mask when necessary.
Protective gloves	Wear impervious protective gloves.
Eye and/or face protection	Wear protective glasses or goggles.
Skin and body protection	Wear protective clothing, protective knee-length boots, protective apron etc.

Special Precautions

No information available

9. Physical and Chemical Properties

Physical state	Solid
Color	White
Odor	No odor
Melting point/Freezing point	651℃
Boiling point or initial boiling point and boiling range	1,300℃
Flammability	Non-flammable
Explosive limits and explosive upper limit/flammability limit	Not applicable
Flash point	Non-flammable
Auto ignition point	Non-flammable
Decomposition temperature	No information available

pH	6 to 9 (50 g/L, 20°C)
Dynamic viscosity	Not applicable
Solubility	Water: 64.1% (20°C)
n-octanol/water partition coefficient (log value)	No information available
Vapor pressure	No information available
Density and/or relative density	Density: 3.67 g/cm3
Relative gas density	Not applicable
Particle properties	No information available

10. Stability and Reactivity

Reactivity	Stable under normal handling conditions
Chemical stability	Stable under normal handling conditions
Possibility of hazardous reactions	Does not cause hazardous reactions under normal handling conditions.
Conditions to avoid	Avoid direct sunlight and heat.
Incompatible dangerous substances	Alkaline metals, ammonia, class 6 dangerous goods (oxidizing liquids), strong oxidizers, base, water, diazo compounds
Hazardous decomposition products	Iodine

11. Toxicological Information

Product Toxicological Information

Acute toxicity (oral)	Mouse LDLo = 1,650mg/kg
Acute toxicity (dermal)	Classification not possible
Acute toxicity (inhalation: gas)	Solid according to the GHS definition.
Acute toxicity (inhalation: vapor)	Solid according to the GHS definition.
Acute toxicity (inhalation: dust/mist)	Classification not possible
Skin corrosion/irritation:	Classification not possible
Serious eye damage/eye irritation	Contact with eyes causes irritation.
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Is not on the IARC or NTP lists.
Reproductive toxicity	Classification not possible
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible

12. Ecological Information

Product Ecological Information

Ecotoxicity	
Aquatic toxicity Short-term (acute)	Classification not possible
Aquatic toxicity Long-term (chronic)	Classification not possible

Persistence and degradability	Classification not possible
Bioaccumulative potential	Classification not possible
Mobility in soil	Classification not possible
Hazardous to the ozone layer	Classification not possible

13. Disposal Considerations

Residual waste

Dispose of this product in compliance with all laws and local government standards.
Processing of waste should be outsourced to an industrial waste disposer licensed by the prefectural governor or a local public entity.

Contaminated containers and packaging

When disposing of containers, do so after completely removing all content.

14. Precautions for Transport

International regulations

UN number	Not applicable
Product name (UN proper shipping name)	Not applicable
UN classification (transport hazard class)	Not applicable
Subsidiary hazard class	Not applicable
Container grade	Not applicable
Marine pollutants (Applicable/Not applicable)	Not applicable
IBC code (applicable/not applicable)	Not applicable

Japanese regulations

Land regulation information	Not applicable
Sea regulation information	Not applicable
Marine pollutants	Not applicable
Air regulation information	Not applicable

Special safety measures for transportation or methods of transportation:

Avoid direct sunlight during transportation. Load in a manner that will prevent damage, corrosion or spillage to the container and take measures to prevent load collapse. Do not stack heavy goods.

15. Applicable Laws and Regulations

Names of applicable laws and regulations and information relating to regulations based on those laws and regulations

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	Not applicable

Industrial Safety and Health Act	Dangerous goods and hazardous substances that require the name to be indicated on the label (Iodine)
Poisonous and Deleterious Substances Control Act.	Not applicable

16. Other Information

References

List of classification results for NITE GHS (2021)
Japan Society for Occupational Health (2021) Recommendations for permissible concentrations etc.
Handbook of Chemistry - Basics Revised 5th Edition Maruzen (2004)
ACGIH, American Conference of Governmental Industrial Hygienists (2021) TLVs and BEIs.

[Note] This SDS complies with JIS Z 7253: 2019 and was created based on the product information and hazard information available at the time of creation. However, this may not necessarily be sufficient. Therefore, handle with care. If new knowledge becomes available, changes may be made to this SDS as required. Precautionary statements apply to normal handling. In the case of special handling, safety measures suitable for the use and conditions should be taken before handling.