

Safety Data Sheet

1. Identification

Product name	Japanese Pharmacopoeia Minocycline Hydrochloride Reference Standard
Supplier Name	Pharmaceutical and Medical Device Regulatory Science Society of Japan
Address	2-12-15, Shibuya, Shibuya-ku, Tokyo 150-0002, Japan
Tel	+81-3-3400-5634
Emergency contact	Pharmaceutical and Medical Device Regulatory Science Society of Japan, Pharmaceutical Reference Standards Center
Tel	+81-6-6221-3444
Fax	+81-6-6221-3445
Recommended use	This product is an analytical reagent.
Restrictions on use	It is not a medicine or clinical diagnostic agent, so it can not be used for human or animals.

2. Hazard Identification

GHS Classification of chemicals

Physicochemical hazards	Not classified.
Health hazards	
Reproductive toxicity	Category 1A
Environmental hazards	Not classified.
Label elements	
Signal word	Danger
Hazard statement	May damage fertility or the unborn child
Precautionary statement	<p>【Prevention】 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>【Response】 If exposed or concerned: Get medical advice/attention.</p> <p>【Storage】 Store locked up.</p> <p>【Disposal】 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>

3. Composition / Information on Ingredients

Substance / Mixture	Substance.
Chemical name	Minocycline hydrochloride
Synonym / common name	—
CAS No.	13614-98-7
Component and concentration or concentration range	100%
Reference Number in Gazetted List in Japan	ENCS : — ISHL : —
Component contributing to GHS classification	No data available.

4. First-Aid Measures

Inhalation	Remove victim to fresh air and keep comfortable for breathing. Get medical attention if irritation develops and persists.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water.

Ingestion	Get medical attention if irritation develops and persists. Rinse mouth. If ingestion of a large amount dose occur, call a doctor/physician immediately.
Most important symptoms/effects, acute and delayed	No data available.
Protection of first-aiders	Wear personal protective equipment as required.
Indication of immediate medical attention and special treatment needed	Provide the symptomatic treatment.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, foam, dry chemical, carbon dioxide.
Unsuitable extinguishing media	No data available.
Specific hazards arising from the chemical product	Irritating, toxic or corrosive gases may be generated by a fire.
Special extinguishing method	Use standard firefighting procedures and consider the hazards of other involved materials. As with all fires, evacuate personnel to a safe area. Use water spray to cool unopened containers.
Protection of fire-fighters	Wear suitable protective equipment.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid inhalation of dust or vapor etc from the spilled material. See section 8 of the SDS, wear suitable protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Avoid release to the environment.
Methods and materials for containment and cleaning up	Collect spillage in an appropriate way. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

7. Handling and Storage

Handling	Technical measures	See section 8 of the SDS, perform engineering controls and wear protective equipment. See section 8 of the SDS, perform local ventilation or general ventilation.
Safety handling precautions	When handling Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wear personal protective equipment. After removing gloves, wash hands and other exposed skin thoroughly. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy and while nursing. Avoid release to the environment.	
Storage	Contact avoidance	See section 10 of the SDS.
	Safe storage conditions	Keep container tightly closed. Store in a well-ventilated place. Keep it in a cool place.
	Safe packaging material	Store in an appropriate container according to applicable laws and regulations.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits	TWA- 8 hour: 200 $\mu\text{g}/\text{m}^3$
Engineering controls	Install an eyewash facilities and a safety shower in the workplace where this material is stored or handled. Install general ventilation system and local exhaust ventilation. Use a laboratory fume hood, vented enclosure, glovebox, or other effective containment.

Personal protective equipment

Respiratory protection	Wear appropriate respiratory protection (e.g., dust mask, gas mask).
Hand protection	Wear appropriate protective gloves (e.g., chemically compatible gloves).
Eye protection	Wear appropriate eye protection/face protection (e.g., safety glasses with side shields, goggle-type protective glasses).
Skin and body protection	Wear appropriate protective clothing (e.g., lab coat, long sleeve work clothes).

9 . Physical and Chemical Properties and Safety Characteristics

Physical state	Solid: Crystalline powder.
Colour	Yellow.
Odor	No data available.
Melting point/Freezing point	No data available.
Flammability	Not highly flammable.
Boiling point or initial boiling point and boiling range	No data available.
Lower and upper explosion limit/ flammability limit	
Lower limit(%)	No data available.
Upper limit (%)	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Water
	Sparingly soluble.
	Other
	Freely soluble in <i>N,N</i> -dimethylformamide. Soluble in methanol. Slightly soluble in ethanol (95).
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.
Other information	
Aquatic solution pH	3.5 (1.0 g/100 mL)
Max. Explosion Pressure (bar)	7.8
Max. Rate of Pressure Rise (bar / sec)	651
Kst Value (bar*m/s)	177
St Class	1
Min. Ignition Energy (mJ)	70–75
Limiting Oxygen Concentration (% vol)	6.5
Bulk Powder (diffusion cell)	152
Test (T - onset Temperature, °C)	

10 . Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction under conditions of normal use.
Conditions to avoid	Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NO _x , Halides.

11 . Toxicological Information

Acute toxicity

Tests	Species	Results
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Oral-LD50	Rat	2380 mg/kg
	Mouse	3600 mg/kg

Skin corrosion / irritation

Tests	Species	Results
Skin irritation test	Rabbit	Mild

Serious eye damage / eye irritation

Tests	Species	Results
Eye irritation test	Rabbit	Mild

Respiratory sensitization

Skin sensitization

Tests	Species	Results
Skin sensitization test	Guinea Pig	Negative

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Tests	Species	Route (Dose)	Endpoint	Effects
Fertility and Embryonic Development	Rat	Oral (100 mg/kg/day)	NOAEL	No effects at maximum dose
Reproductive & Fertility	Rat (Males)	Oral (Dose not specified)	—	Fertility
	Rat (Females)	Oral (Dose not specified)	—	No effects at maximum dose

Specific target organ toxicity - Single exposure

Specific target organ toxicity - Repeated exposure

Tests	Species	Route (Dose)	Endpoint	Target organ
5 Months repeated dose toxicity test	Rat	Oral (20 mg/kg/day)	NOAEL	Liver
5 Months repeated dose toxicity test	Dog	Oral (10 mg/kg/day)	NOAEL	Thyroid, blood

Aspiration hazard

1 2 . Ecological Information

Ecotoxicity	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Hazard to the ozone layer	This substance is not listed in the Annex to the Montreal Protocol.

1 3 . Disposal Considerations

Information on safe and environmentally desirable disposal or recycling of chemicals, contaminated containers and packaging.

Dispose in a safe manner in accordance with national and local regulations.

When empty containers are discarded, contents should be completely removed.

1 4 . Transport Information

UN Number	Not regulated.
Proper shipping name	
Hazard class	

Subsidiary hazard class

Packing group

Domestic restriction	Rail and road	Not regulated.
	Marine	Not regulated.
	Aviation	Not regulated.

1 5 . Regulatory Information

Japanese regulations

Pollutant Release and Transfer Register	Not regulated.
Poisonous and Deleterious Substances Control Act	Not regulated.
Industrial Safety and Health Act	Not regulated.
Fire Service Act	Not regulated.

1 6 . Other Information

Issued date	aMINO-01 :	Apr. 01, 2021
Revision date	aMINO-02 :	Aug. 11, 2021
References		
Ministry of Health, Labour and Welfare : GHS model SDS information		
Japan Science and Technology Agency. : J-GLOBAL		
National Institute of Technology and Evaluation: NITE Chemical Risk Information Platform (NITE-CHRIP)		
etc.		

The information in this Safety Data Sheet is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification of this product. The information provided is correct to the best of our knowledge, information and belief at the date of its publication and so on. However, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity.