



SAFETY DATA SHEET

Issue Date 19-Nov-2025 Revision Number 1.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Dinotefuran Reference Material [CRM]

Other means of identification

Product Code(s) 047-35061

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

1-2, Doshomachi 3-Chome, E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800

Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

2. HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Acute aquatic toxicity

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms



Signal word Warning

Hazard statements

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)

Avoid release to the environment

Precautionary statements-(Response)

Collect spillage

Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C7H14N4O3

Chemical Name	Molecular weight	CAS RN	Weight-%
Dinotefuran	202.21	165252-70-0	99.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician

or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Water spray (fog). Carbon dioxide (CO2). Foam. Extinguishing powder. Sand.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical none.

Impact

Sensitivity to Static Discharge none.

Protective equipment and precautions 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, protective

equipment and emergency

Ensure adequate ventilation, especially in confined areas.

procedures

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystalline powder - powder
Odor no data available

pH no data available
Melting point/freezing point 102 - 108 °C
Boiling point, initial boiling point and boiling range no data available
Flash point no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
vapour pressure
vapour density
no data available

Solubilities water, ethanol, acetone: soluble.

n-Octanol/water partition coefficient:(log Pow)no data availableAuto-ignition temperature:no data availableDecomposition temperature:no data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability ReactivityMay be altered by light. no data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dinotefuran	2450 mg/kg (Rat)	> 2,000 mg/kg (Rat)	> 4.09 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Dinotefuran	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	,	•	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Dinotefuran	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Dinotefuran	Based on the NITE GHS classification results.
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Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Dinotefuran	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Dinotefuran	Based on the NITE GHS classification results.
Borrow London and the Arman Call	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Dinotefuran	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Dinotefuran	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Dinotefuran	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Dinotefuran	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Dinotefuran	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Dinotefuran	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

ſ	Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
	Dinotefuran 165252-70-0	N/A	N/A	N/A	EC50 : Chironomidae (larva) 0.036 mg/L 48 h

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

Chemical Name	Partition coefficient
Dinotefuran	-0.549
165252-70-0	

Mobility in soilNo information availableOther DataNo information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Precautionary including method of Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dinotefuran)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

IATA

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dinotefuran)

UN classfication 9
Subsidiary hazard class
Packing group III
Environmentally Hazardous Yes

Substance

IMDG

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dinotefuran)

UN classfication 9

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Dinotefuran - 165252-70-0	165252-70-0	99.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

16. OTHER INFORMATION

Issue Date Revision Note 19-Nov-2025

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet