



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 14-Feb-2023 Revision Number 2.03

# **Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name	Nitralin Standard
Product Code	145-09201

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964 **Supplier** FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

**Emergency telephone number** Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571

restrictions on use

For research use only

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Acute aquatic toxicity

Category 1

#### **Pictograms**



Warning Signal word

**Hazard statements** 

H400 - Very toxic to aquatic life

**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** 

Not available Other hazards

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

#### Formula C13H19N3O6S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Nitralin	98.0	345.37	N/A	4-(12)-418	4726-14-1

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

# **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

# 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.

#### **Protection of first-aiders**

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

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

# Unsuitable extinguishing media

No information available

# Specific hazards arising from the chemical product

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

# Special extinguishing method

No information available

# Special protective actions for

# fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

#### Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

#### Recoverly, neutralization

No information available

# Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# **Section 7: HANDLING AND STORAGE**

### Handling

### **Technical measures**

Do not give shock. Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

# Storage

Safe storage conditions

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

with an inert gas.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

# Section 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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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Color reddish yellow crystals - powder **Appearance** Odor no data available 150 - 155 °C Melting point/freezing point Boiling point, initial boiling point and boiling range no data available **Flammability** 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
price no data available
no data available
price no data available
no data available
no data available

Viscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities acetone: soluble. water and Ethanol: practically insoluble, or

insoluble.

n-Octanol/water partition coefficient:(log Pow) 2.92

Vapour pressure no data available Specific Gravity / Relative density no data available

Vapour densityno data availableParticle characteristicsno data available

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

Reactivity no data available
Chemical stability May be altered by light.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

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

# Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitralin	>2 g/kg(Rat)	>2 g/kg(Rat)	N/A

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Nitralin	N/A	LC50 : Oncorhynchus mykiss	EC50 : Daphnia magna
		22 mg/L 96 h	0.004 mg/L 48 h

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID

**UN** number UN3077

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

**UN classfication** 

Subsidiary hazard class Ш Packing group Marine pollutant Yes

**IMDG** 

UN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed **TSCA** 

Japanese regulations

**Fire Service Act** Category V, nitro com pounds, dangerous grade 2

Poisonous and Deleterious Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerous

goods in ship **Civil Aeronautics Law** Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

**Register Law**  $(\sim 2023.3.31)$ 

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Not applicable **Export Trade Control Order** 

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc.

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**