



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Feb-2023

Revision Number 5.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dodecanal
Product Code	042-21542,046-21545

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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Supplier FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571 For research use only

Recommended uses and restrictions on use

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Acute aquatic toxicity

Chronic aquatic toxicity

Category 2 Category 2

Pictograms



Signal word

None

Hazard statements

H401 - Toxic to aquatic life

H411 - 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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH3(CH2)10CHO

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dodecanal	95.0	184.32	(2)-494,(2)-217	公表	112-54-9

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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 Protective mask Protective 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

Form

Colorless - nearly colorless

Turbidity clear Appearance liquid

Odor characteristic odor

Melting point/freezing point11-12 °CBoiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data available

Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data available

Flash point 116 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

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

insoluble.

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density 0.829 - 0.839 g/mL no data available Vapour density Particle characteristics no 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

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dodecanal	23gm/kg(Rat)	N/A	N/A

Skin irritation/corrosion no data available Serious eye damage/ irritation no data available Respiratory or skin sensitization no data available Reproductive cell mutagenicity no data available Carcinogenicity no data available

Reproductive toxicity no data available STOT-single exposure no data available no data available STOT-repeated exposure no data available **Aspiration hazard**

Section 12: ECOLOGICAL INFORMATION

No information available **Ecotoxicity**

Other data no data available

Persistence and degradability No information available No information available **Bioaccumulative potential** Mobility in soil No information available

Hazard to the ozone layer 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 UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dodecanal)

UN classfication 9
Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dodecanal)

UN classfication 9
Subsidiary hazard class

Packing group

Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dodecanal)

UN classfication 9

Subsidiary hazard class

Packing group III Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Category IV, Class III petroleums, dangerous grade 3

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

and storage of dangerous

Transport by Ship and Storage, Attached Table 1)

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 (~2023.3.31)

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Key literature references and

NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc. 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