



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Feb-2023

Revision Number 1.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Quinalphos Standard		
Product Code	175-00441		
Manufacturer	FUJIFILM Wako Pure Chemical Corporation		
Manufacturer	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		
	Db + 04 0 0000 0744		

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

Emergency telephone number Recommended uses and

restrictions on use

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

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Self-reactive substances and mixturesType GAcute toxicity - OralCategory 3Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 2Specific target organ toxicity (single exposure)Category 1

Category 1 nervous system

Specific target organ toxicity (repeated exposure) Category 1

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms

Signal word



Hazard statements

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H370 - Causes damage to the following organs: nervous system

Danger

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system

Precautionary statements-(Prevention)

- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- Wash contaminated clothing before reuse
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

Store locked up

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 C12H15N2O3PS

Γ	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
	Quinalphos	98.0	298.30	N/A	8-(2)-1065	13593-03-8

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

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.

Storage

Safe storage conditions

Storage conditions Container protected from light, and store tightly closed in freezer (-20°C). Store locked

up.

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

Hand protection Impermeable 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

ColorWhite - pale yellowAppearancecrystalline powderOdorno data available

Melting point/freezing point 30 °C

Boiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

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

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour 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

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

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

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quinalphos	26 mg/kg (Rat)	300 mg/kg (Rat)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Quinalphos	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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
	vapor- source information	Source illiorniation	Source information
Quinalphos	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
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Quinalphos		Based on the NITE GI	HS classification re	sults.
Serious eye damage/ irritation				
Chemical Name		Serious eye da	mage/irritation so	urce information
Quinalphos		Based on the NITE GI	HS classification re	sults.
Respiratory or skin sensitization		•		
Chemical Name		Respiratory or S	kin sensitization s	source information
Quinalphos		Based on the NITE GI	IS classification re	sults.
Reproductive cell mutagenicity				
Chemical Name		germ cell m	nutagencity sourc	e information
Quinalphos		Based on the NITE GHS classification results.		
Carcinogenicity				
Chemical Name		Carcino	genicity source in	formation
Quinalphos		Based on the NITE GHS classification results.		
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Quinalphos		Group 2A		
13593-03-8		•		
Reproductive toxicity				
Chemical Name		Reproductive toxicity source information		
Quinalphos		Based on the NITE GHS classification results.		
STOT-single exposure		•		

STOT-repea

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

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

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
	Based on the NITE GHS classification	Based on the NITE GHS classification results.

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 UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Quinalphos)

UN classfication 6.1

Subsidiary hazard class

Packing group II
Marine pollutant Yes

IMDG

UN number UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Quinalphos)

UN classfication 6.1

Subsidiary hazard class

Packing group II
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 UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Quinalphos)

UN classification 6.1

Subsidiary hazard class

Packing group II Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed
TSCA -

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 2nd. Grade

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous Regarding Transport by Ship and Storage, Attached Table 1) goods in ship

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention Marine pollutants (P and PP substances)

Law

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

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Quinalphos 13593-03-8 (98.0)	Applicable	-	-

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