



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Sep-2023

Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Phosalone Reference Material		
Product Code			
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	+81-6-6203-3741 / +81-3-3270-8571		

# **Section 2: HAZARDS IDENTIFICATION**

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

Category 1

**GHS** classification

Recommended uses

Restrictions on use

Classification of the substance or mixture

Acute toxicity - OralCategory 3Acute toxicity - DermalCategory 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

For research use only

Specific target organ toxicity (single exposure) Category 1, Category 2

Category 1 central nervous system

Category 2 liver

Specific target organ toxicity (repeated exposure)

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1





#### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H370 - Causes damage to the following organs: central nervous system

H371 - May cause damage to the following organs: liver

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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- Wash contaminated clothing before reuse
- · IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- 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 C12H15CINO4PS2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Phosalone	100	367.81	N/A	8-(7)-170,8-(7)-490	2310-17-0

**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. Immediate medical attention is required.

#### Skin contact

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists

#### **Eve 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** Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. 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 ( JIS T 8151 )

**Hand protection** chemical protective gloves (JIS T 8116) **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 - nearly whiteAppearancecrystals - powderOdorno data available

Melting point/freezing point 48 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or

no data available
no data available
no data available

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 : Very soluble. water : practically insoluble,or insoluble

.

n-Octanol/water partition coefficient:(log Pow) 4.3

Vapour pressure no data available

Specific Gravity / Relative density 1.39

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

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
Phosalone	85 mg/kg (Rat)	> 1000 mg/kg (Rabbit)	N/A
		390 mg/kg (Rat)	

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

,		·	Acute toxicity -inhalation mist-	
	vapor- source information	source information	source information	
Phosalone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS	

**Aspiration Hazard source information** 

Based on the NITE GHS classification results.

	classification results.	С	lassification results.	classifica	tion results.
Skin irritation/corrosion					
	cal Name			/irritation sourc	
Pho	salone		Based on the NITE GHS	classification res	sults.
Serious eye damage/ irritation					
Chemic	cal Name		Serious eye dama		
Pho	salone		Based on the NITE GHS	classification res	sults.
Respiratory or skin sensitizatio	n				
Chemic	cal Name		Respiratory or Skir	n sensitization s	ource information
Pho:	salone		Based on the NITE GHS	classification res	sults.
Reproductive cell mutagenicity	,				
Chemie	cal Name		germ cell mut	agencity source	information
Pho	salone		Based on the NITE GHS classification results.		
Carcinogenicity			•		
Chemical Name			Carcinogenicity source information		
Pho:	salone		Based on the NITE GHS classification results.		
			•		
Chemical Name	) N	ITP	IARC	ACGIH	JSOH (Japan)
Phosalone			Group 2A		
2310-17-0					
Reproductive toxicity					
Chemic	cal Name		Reproductive	toxicity source	information
Phosalone		Based on the NITE GHS classification results.			
TOT-single exposure					
Chemical Name		STOT -single exposure- source information			
Phosalone		Based on the NITE GHS classification results.			
TOT-repeated exposure			•		
			0707		
Chemic	cal Name		STOT -repeated	exposure- sou	ce information

## **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Aspiration hazard** 

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosalone	N/A	LC50 : Lepomis macrochirus	N/A
		100 ug/L 96h	

#### Other data

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

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

No information available
No information available
No information available

**Chemical Name** 

Phosalone

## **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 (Phosalone)

**UN classfication** 

Subsidiary hazard class

Packing group Marine pollutant Yes

**IMDG** 

UN2783 **UN** number

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

**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** 

**UN** number UN2783

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

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Not applicable

**Poisonous and Deleterious** Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage

and storage of dangerous

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance 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)

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)	Pollutant Release and Transfer Register Law (2023.4.1-)
Phosalone 2310-17-0 ( 100 )	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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**