



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Oct-2024

Revision Number 1.07

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Luminol Reaction Experiment Kit		
Product Code	291-75201		
Supplier	FUJIFILM Wako Pure Chemical Corporation		

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Oxidizing solidsCategory 1Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation





#### **Hazard statements**

H271 - May cause fire or explosion; strong oxidizer

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

#### **Precautionary statements-(Prevention)**

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles
- · Wear fire/flame resistant/retardant clothing

### **Precautionary statements-(Response)**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician

- · Wash contaminated clothing before reuse
- IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
- · Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion
- · In case of fire: Use suitable extinguishing media for extinction

#### **Precautionary statements-(Storage)**

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

#### 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 Kit

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium Peroxide	97.0	77.98	(1)-496	*	1313-60-6
3-Aminophthalhydrazide	=<100	177.16	N/A	N/A	521-31-3

Note on ISHL No.:

### **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

Extinguishing powder, Sand

#### Unsuitable extinguishing media

Do not use straight streams

#### 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.

<sup>\*</sup> in the table means announced chemical substances.

## Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. 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**

Flammable. Do not give shock. Avoid contact with reducing agents and combustible materials. 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

Safe packaging material

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. Store locked up. Moisture-proof aluminum pack

Incompatible substances Organic substance, Combustible materials, Strong reducing 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 (JIS T 8147)

Skin and body protection Long-sleeved work clothes

## General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

Appearance solid

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available
no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities no data available n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available no data available Specific Gravity / Relative density Vapour density no data available Particle characteristics no data available

## Section 10: STABILITY AND REACTIVITY

#### Stability

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

**Hazardous reactions** 

Reacts with water to generate oxygen gas. Reacts with water to produce flammable/explosive gas. Reacts violently with acids, may cause fire or explosion.

#### Conditions to avoid

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

#### Incompatible materials

Organic substance, Combustible materials, Strong reducing agents

#### Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

#### **Acute toxicity**

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

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Sodium Peroxide	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
Sodium Peroxide	Based on the NITE GHS classification results.

Serious eve damage/irritation

Chemical Name	Serious eye damage/irritation source information
Sodium Peroxide	Based on the NITE GHS classification results.
Respiratory or skin sensitization	·
Chemical Name	Respiratory or Skin sensitization source information
Sodium Peroxide	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	·
Chemical Name	germ cell mutagencity source information
Sodium Peroxide	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Sodium Peroxide	Based on the NITE GHS classification results.

Chemical Name	Reproductive toxicity source information
Sodium Peroxide	Based on the NITE GHS classification results.
STOT-single exposure	·
Chemical Name	STOT -single exposure- source information
Sodium Peroxide	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Sodium Peroxide	Based on the NITE GHS classification results.
Aspiration hazard	·

Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Sodium Peroxide	Based on the NITE GHS classification results.

## **Section 12: ECOLOGICAL INFORMATION**

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

no data available **Ecotoxicity** 

#### Other data

Other data				
Chemical Name	Short-term (acute) has	zardous to the	Long-term (chronic)	hazardous to the
	aquatic environment so	ource information	aquatic environment	source information
Sodium Peroxide	Based on the NITE GHS of	classification	Based on the NITE GHS	S classification
	results.		results.	

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

UN1504 **UN** number Proper shipping name: Sodium peroxide

**UN classfication** 5.1 Subsidiary hazard class

Packing group

Not applicable Marine pollutant

**IMDG** 

**UN** number UN1504

Proper shipping name: Sodium peroxide

**UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

Cargo Aircraft only IATA

**UN** number UN1504

Proper shipping name: Sodium peroxide

**UN classfication** 5.1

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

**Substance** 

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Category I, inorganic peroxides, dangerous grade 1

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

**Substances Control Law** 

Industrial Safety and Health Act Dangerous Substances - Oxidizing Substance (Enforcement Order Attached Table 1

Item 3)

Chemical Substances Hazardous to Skin, etc. (Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2025~)

【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) 【2025.4.1~】Notifiable Substances (Law Art.57-2)

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation

Regulations for the carriage

and storage of dangerous

goods in ship

Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

**Civil Aeronautics Law** Oxidizing Agents - Oxidizing Agents (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 Industrial Cafety and Health Law

illuustilai Salety allu Healtii Law					
Law Name	Chemical Name in Regulation	Weight %			
Notifiable Substances (Law Art 57-2)	Sodium peroxide	97.0	2025/4/1		

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-)
Sodium Peroxide 1313-60-6 ( 97.0 )	Applicable	-	-

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

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.

#### **Record of SDS revisions**

The following contents were revised. Composition/information on ingredients. Fire fighting measures. Stability and reactivity. Ecological information. Regulatory information.

#### 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**