



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 19-Jun-2025 Revision Number 2.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,5-Diaminotoluene Sulfate
Product Code	329-48062,323-48065

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

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Acute toxicity - Oral

Serious eye damage/eye irritation

Category 3 Category 2B

Pictograms



Signal word

Danger

Hazard statements

H320 - Causes eye irritation H301 - Toxic if swallowed

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

Precautionary statements-(Response)

- 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
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

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 C7H10N2·H2SO4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2,5-Diaminotoluene Sulfate (1:1)	97	220.25	(5)-3025	*	615-50-9

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

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.

^{*} in the table means announced chemical substances.

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 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. 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 (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

Odorless

no data available

Form

Odor

Color White - slightly brown
Appearance crystals - crystalline powder

Melting point/freezing point >300 °C

Boiling point, initial boiling point and boiling range no data available
Flammability no data available
Evaporation rate: no data available

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data availableFlash pointno data available

Auto-ignition temperature: 600 °C

Decomposition temperature:pH
no data available
no data available

Flammability (solid, gas):

Viscosity (coefficient of viscosity) no data available no data available **Dynamic viscosity**

Hot water: soluble. Alcohol, ether: freely soluble. Solubilities

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

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

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)

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	Oral LD50	Dermal LD50	Inhalation LC50
2,5-Diaminotoluene Sulfate	98 mg/kg (Rat)	N/A	N/A
(1:1)			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
2,5-Diaminotoluene Sulfate (1:1)	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
2,5-Diaminotoluene Sulfate (1:1)	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
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.
Serious eye damage/ irritation	

Serious eye damage/irritation source information **Chemical Name** 2,5-Diaminotoluene Sulfate (1:1) Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Official Name	goriii con matagoriotty cource information	1
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.	
Carcinogenicity		

Chemical Name	Carcinogenicity source information
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
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2,5-Diaminotoluene Sullate (1.1) Based on the NTE GITS classification results.	ts.	Based on the NITE GHS classification results.	1)	2,5-Diaminotoluene Sulfate (1:1
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STOT-single exposure

Chemical Name	STOT -single exposure- source information
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
2,5-Diaminotoluene Sulfate (1:1)	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information
2,5-Diaminotoluene Sulfate (1:1)	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

Ecotoxicity no data available

Other data

Other data			
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
2,5-Diaminotoluene Sulfate (1:1)	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

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 UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (2,5-Diaminotoluene Sulfate (1:1))

UN classfication 6.1

Subsidiary hazard class

Packing group III

Marine pollutant Not applicable

IMDG

UN number UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (2,5-Diaminotoluene Sulfate (1:1))

UN classfication 6.1

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

IATA

UN number UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (2,5-Diaminotoluene Sulfate (1:1))

UN classfication

Subsidiary hazard class Packing group

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Environmentally Hazardous

Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Not applicable **Fire Service Act**

Poisonous and Deleterious Substances Control Law

Deleterious Substances 3rd. Grade

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act (2026~)

[2026.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

【2026.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage and storage of dangerous goods in ship

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

Regarding Transport by Ship and Storage, Attached Table 1)

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-)

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	Scheduled enforcement date
Notifiable Substances (Law Art.57-2)	2-Methyl-p-phenylenediamine	97	2026/4/1
	sulfate		

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-)
2,5-Diaminotoluene Sulfate (1:1) 615-50-9 (97)	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. Hazards identification. Physical and chemical properties. Toxicological information. 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