



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 3.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Rosin	
Product Code	186-01555	
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 Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.	

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Respiratory sensitizationCategory 1Skin sensitizationCategory 1Reproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation

Acute aquatic toxicity
Chronic aquatic toxicity
Category 2
Category 2

Pictograms



Signal word

Danger

Hazard statements

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H361 - Suspected of damaging fertility or the unborn child

H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- Avoid breathing dust/fume/gas/mist/vapors/spray
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- · Use only outdoors or in a well-ventilated area

· Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · Collect spillage

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 Substance

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Rosin	=<100	N/A	N/A	N/A	8050-09-7

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.

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

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material Polyethylene

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 hodies.

exposure limits established by the region specific regulatory bodies.

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Rosin	N/A	N/A	TWA: 0.001 mg/m³ total resin
8050-09-7			acids inhalable particulate
			matter

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

no data available

Form

Color Pale yellow - brown

Appearance crystals - crystalline powder or mass

Odor
Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flammability

Evaporation rate:

no data available
no data available
no data available

Upper/lower flammability or explosive limits

Flammability (solid, gas):

Upper:no data availableLower:no data available

Flash point 196 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableSolubilitiesEthanol: freely soluble .

n-Octanol/water partition coefficient:(log Pow)
No data available
no data available
no data available
Specific Gravity / Relative density
Napour 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

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)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Rosin	2800 mg/kg (Rat)	> 2000 mg/kg (Rat)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
1 (00)			Based on the NITE GHS classification results.

	Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
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	vapor- source information	source information	source information
Rosin	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	
Rosin	Based on the NITE GHS classification results.	
Society and demand invitation		

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Rosin	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Rosin	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Rosin	Based on the NITE GHS classification results.
Caralina maniality	

Carcinogenicity

Guromogernotty	
Chemical Name	Carcinogenicity source information
Rosin	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Rosin	Based on the NITE GHS classification results.	

STOT-single exposure

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

STOT-repeated exposure

Chemical Name	S101 -repeated exposure- source information		
Rosin	Based on the NITE GHS classification results.		
Aspiration hazard			

Aspiration nazard			
Chemical Name	Aspiration Hazard source information		
Rosin	Based on the NITE GHS classification results.		

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

	Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ī	Rosin	EC50 : Desmodesmus	N/A	EC50 : Daphnia magna
		subspicatus		4.5 mg/L 48 h
		400 mg/L 72 h		

Other data

of the data				
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the		
	aquatic environment source information	n aquatic environment source information		
Rosin	Based on the NITE GHS classification	Based on the NITE GHS 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

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Rosin)

UN classfication 9
Subsidiary hazard class

Packing group III
Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Rosin)

UN classfication 9

Subsidiary hazard class

Packing group III
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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Rosin)

UN classfication 9

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (

2024~)
Regulations for the carriage

[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

and storage of dangerous

goods in ship

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

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Civil Aeronautics Law

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

for Air Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

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-)
Rosin 8050-09-7 (=<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

Record of SDS revisions Disclaimer The following contents were revised. Regulatory information.

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