



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 29-Oct-2024

Revision Number 1.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Carboxyvinyl Polymer 103
Product Code	356-45591

Supplier FUJIFILM Wako Pure Chemical Corporation

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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

Carcinogenicity
Specific target organ toxicity (repeated exposure)

Category 1 respiratory system

Category 2 Category 1

Pictograms



Signal word

Danger

Hazard statements

H351 - Suspected of causing cancer

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

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
- · 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

Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

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

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Poly(acrylic acid)	99	N/A	(6)-898	*	9003-01-4
1,2-Dichloroethane	0.1-0.999	98.96	(2)-54	2-(13)-23	107-06-2

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: residue, 1,2-Dichloroethane < 1 %

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 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

- 3				
	Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
	Poly(acrylic acid) 9003-01-4	N/A	N/A	TWA 10ppm(acrylic acid)
	1,2-Dichloroethane 107-06-2	TWA: 10 ppm OEL TWA: 40 mg/m³ OEL ISHL/ACL: 10 ppm	ISHL/ACL: 10 ppm	TWA: 10 ppm

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

Color white Appearance powder

Odorless or slight peculiar odor

Melting point/freezing pointno data availableBoiling 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

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

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

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

Acute toxicity

Acute toxicity					
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Poly(acrylic acid)	2500 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.1 mg/L (Rat)4 h		
1.2-Dichloroethane	670 mg/kg (Rat)	2800 mg/kg (Rabbit)	1000 ppm (Rat) 4 h		

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
1 ory (doly lio dola)			Based on the NITE GHS classification results.
			Based on the NITE GHS
1,2 21011101001110110			classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Poly(acrylic acid)	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	classification results.	classification results.	classification results.
1,2-Dichloroethane	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
Poly(acrylic acid)	Based on the NITE GHS classification results.
1,2-Dichloroethane	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
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Poly(acrylic acid)		В	ased on the NITE GH	S classification resu	lts.
1,2-Dichloroethane		В	ased on the NITE GH	S classification resu	lts.
Respiratory or skin sensitization					
Chemical Name			Respiratory or Sk	in sensitization so	urce information
Poly(acrylic acid)		В	ased on the NITE GH	S classification resu	lts.
1,2-Dichloroethane		В	ased on the NITE GH	S classification resu	lts.
Reproductive cell mutagenicity					
Chemical Name			germ cell mi	utagencity source i	nformation
Poly(acrylic acid)		В	ased on the NITE GH	S classification resu	lts.
1,2-Dichloroethane		В	ased on the NITE GH	S classification resu	lts.
Carcinogenicity					
Chemical Name			Carcinog	enicity source info	rmation
Poly(acrylic acid)		В	ased on the NITE GH	S classification resu	lts.
1,2-Dichloroethane		В	ased on the NITE GH	S classification resu	lts.
·					
Chemical Name	NTP		IARC	ACGIH	JSOH
Poly(acrylic acid) 9003-01-4	N/A		Group 3	N/A	N/A
1,2-Dichloroethane	Reasonably		Group 2B	N/A	Group 2B
107-06-2	Anticipated				· ·
Reproductive toxicity					
Chemical Name			Reproductiv	e toxicity source in	nformation
Poly(acrylic acid)		Based on the NITE GHS classification results.			
1,2-Dichloroethane		Based on the NITE GHS classification results.			
STOT-single exposure					
Chemical Name			STOT -single	exposure- source	information
Poly(acrylic acid)		Based on the NITE GHS classification results.			
1,2-Dichloroethane		Based on the NITE GHS classification results.			
STOT-repeated exposure					
Chemical Name			STOT -repeate	d exposure- sourc	e information
Poly(acrylic acid)		Based on the NITE GHS classification results.			
1,2-Dichloroethane		Based on the NITE GHS classification results.			
Aspiration hazard		-			
Chemical Name			Aspiration	Hazard source inf	ormation
Poly(acrylic acid)		В	ased on the NITE GH	S classification resu	Its.
4.0 Diablancathana		1	and an the NITE OIL	C -l:fiti	11 -

Section 12: ECOLOGICAL INFORMATION

Based on the NITE GHS classification results.

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

1,2-Dichloroethane

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Poly(acrylic acid)	N/A	LC50:Lepomis macrochirus	EC50:water flea
		580 mg/L 96 h	168 mg/L 96 h
1,2-Dichloroethane	EC50:Desmodesmus	LC50: =225mg/L (96h,	LC50 : Artemia salina
	subspicatus	Oncorhynchus mykiss)	12.8 mg/L 48 h
	166 mg/L 96 h	LC50: 230 - 710mg/L (96h,	-
	static EC50:Pseudokirchneriella	Lepomis macrochirus)	
	subcapitata	LC50: 110 - 123mg/L (96h,	
	433 mg/L 96 h	Pimephales promelas)	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Poly(acrylic acid)	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.
1,2-Dichloroethane	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 Mobility in soil No information available No information available Hazard to the ozone layer

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 Not regulated

UN number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: 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

IATA Not regulated

UN number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

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 Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) 2025~)

Act on the Evaluation of **Chemical Substances and** Regulation of Their

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Manufacture, etc Regulations for the carriage

Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 565

Water Pollution Control Act Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Wastewater Standards Art.1)

Export Trade Control Order Appendix 2 Export Approval Item Export Approval Item

Air Pollution Control Law Priority Chemical Substances
Soil Contamination Control LawDesignated Hazardous Substances

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-)
Poly(acrylic acid) 9003-01-4 (99)	-	-	Applicable
1,2-Dichloroethane 107-06-2 (0.1-0.999)	-	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 revisionsThe following contents were revised. Composition/information on ingredients.

Toxicological 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