



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 03-Oct-2023 Revision Number 1.03

Category 2

Category 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Carboxyvinyl Polymer 105
Product Code	356-45611
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 <u>Classification of the substance or mixture</u> Carcinogenicity Specific target organ toxicity (repeated exposure) Category 1 respiratory system

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

W01W0235-4561 JGHEEN

Substance Single Substance or Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Poly(acrylic acid)	99	N/A	(6)-898	*	9003-01-4
1,2-Dichloroethane	<1	98.96	(2)-54	2-(13)-23	107-06-2
Note on ISHL No.: * in the table means announced chemical substances.					

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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

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

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

Personal protective equipment

Respiratory protection Hand protection Eye protection Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color		white
Appearance		powde
Odor		Odorle
Melting point/freezing point		no data
Boiling point, initial boiling	point and boiling range	no data
Flammability		no data
Evaporation rate:		no data
Flammability (solid, gas):		no data
Upper/lower flammability or		
explosive limits		
Upper:		no data
Lower:		no data
Flash point		no data
Auto-ignition temperature:		no data

bowder Doorless or slight peculiar odor no data available no data available no data available no data available no data available

no data available no data available no data available no data available Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Poly(acrylic acid)	2500 mg/kg (Rat)	> 2000 mg/kg (Rat)	1.71 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
i oly(dolyllo dold)			Based on the NITE GHS classification results.
			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
i oly(dolylio dold)			Based on the NITE GHS classification results.
1,2 Biomoroodilario			Based on the NITE GHS 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
Poly(acrylic acid)	Based on the NITE GHS classification results.
1,2-Dichloroethane	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Poly(acrylic acid)	Based on the NITE GHS classification results.
1,2-Dichloroethane	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information

		-			
i olj(doljilo dold)			Based on the NITE GHS classification results.		
1,2-Dichloroethane		Based	on the NITE GH	S classification res	sults.
Carcinogenicity					
Chemical Name				enicity source in	
Poly(acrylic acid)		Based	on the NITE GH	S classification res	sults.
1,2-Dichloroethane		Based	on the NITE GH	S classification res	sults.
Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Poly(acrylic acid) 9003-01-4			Group 3		
1.2-Dichloroethane	Reasonably		Group 2A	-	Group 2B
107-06-2	Anticipated		Group 2B		
Reproductive toxicity	- 1 - 1				
Chemical Name		Reproductive toxicity source information			
Poly(acrylic acid)		Based	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- sourc	e information
Poly(acrylic acid)		Based	on the NITE GH	S classification res	sults.
1,2-Dichloroethane		Based on the NITE GHS classification results.			
STOT-repeated exposure					
Chemical Name			STOT -repeate	d exposure- sou	rce information
Poly(acrylic acid)		Based on the NITE GHS classification results.			
		Based on the NITE GHS classification results.			
Aspiration hazard					
Chemical Name			Aspiratior	Hazard source i	nformation
Poly(acrylic acid)		Based on the NITE GHS classification results.			
1,2-Dichloroethane		Based	on the NITE GH	S classification res	sults.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the 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 Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Backing group	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary based class	Not regulated -
Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNotifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table
-	No.9)No.240
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	
Regulation of Their	
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
Air Pollution Control Law	Priority Chemical Substances
Soil Contamination Control	Designated Hazardous Substances
Law	

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(<1)	-	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.

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