



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 22-Feb-2024 Revision Number 5.09

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Cap A Solution-2[Tetrahydrofuran/Acetic Anhydride/Pyridine (8:1:1) Solution]
Product Code	030-19011,034-19014
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</u>	mixture	
Flammable liquids		Category 2
Acute toxicity - Oral		Category 4
Acute toxicity - Inhalation (Vapors	3)	Category 4
Skin corrosion/irritation		Category 1
Serious eye damage/eye irritation		Category 1
Carcinogenicity		Category 2
Reproductive Toxicity		Category 2
Specific target organ toxicity (sing		Category 1, Category 3
Category 1 central nervous sys		
Category 3 Respiratory irritatio		
Specific target organ toxicity (rep		Category 1
	stem, respiratory system, liver, nervous system, kidr	
Acute aquatic toxicity		Category 2
Chronic aquatic toxicity		Category 2
Pictograms		
Signal word	Danger	
Hazard statements H225 - Highly flammable liquid a H314 - Causes severe skin burn H318 - Causes serious eye dam H302 - Harmful if swallowed H332 - Harmful if inhaled H351 - Suspected of causing cau H361 - Suspected of damaging f	s and eye damage age ncer	

- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H411 Toxic to aquatic life with long lasting effects
- H401 Toxic to aquatic life
- H370 Causes damage to the following organs: central nervous system, respiratory system

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, respiratory system, liver, nervous system, kidneys, blood 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
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

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 SKIN (or hair): Remove/Take off immediately all contaminated clothing. 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: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting
- · In case of fire: Use suitable extinguishing media for extinction
- Collect spillage

Precautionary statements-(Storage)

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

Mixture

Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
80	72.11	(5)-53	*	109-99-9
10	79.10	(5)-710	*	110-86-1
10	102.09	(2)-690	*	108-24-7
		80 72.11 10 79.10	80 72.11 (5)-53 10 79.10 (5)-710	80 72.11 (5)-53 * 10 79.10 (5)-710 *

Note on ISHL No.:

* in the table means announced chemical substances.

Impurities and/or Additives:

[Stabilizer]2,6-Di-t-butyl-4-methylphenol (BHT) about 0.02 %

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

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. Vapors may form explosive mixtures with air

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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. Packed with an inert gas. 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Tetrahydrofuran 109-99-9	TWA: 50 ppm OEL TWA: 148 mg/m ³ OEL Skin ISHL/ACL: 50 ppm	ISHL/ACL: 50 ppm	STEL: 100 ppm TWA: 50 ppm Skin
Pyridine 110-86-1	N/A	N/A	TWA: 1 ppm
Acetic anhydride 108-24-7	Ceiling: 5 ppm Ceiling: 21 mg/m ³	N/A	STEL: 3 ppm TWA: 1 ppm

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Pyridine 110-86-1	1 ppm	N/A
2,6-Di(tert-butyl)-4-methylphenol 128-37-0	10 mg/m ³	N/A

Personal protective equipment Respiratory protection

Hand protection

Eye protection

gas mask for organic gas (JIS T 8152)
 chemical protective gloves (JIS T 8116)
 protective eyeglasses or chemical safety goggles (JIS T 8147)
 on
 Long-sleeved work clothes

Skin and body protection 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 Turbidity Appearance Odor Colorless - yellow clear liquid characteristic odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: Decomposition temperature: pН 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 Highly flammable liquid and vapor no data available no data available 11.8% 2.0% -17 °C 321 °C no data available no data available no data available no data available water, ether, Ethanol: freely soluble. no data available 19.3kPa no data available 2.5(Air=1) 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, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrahydrofuran	2000 mg/kg (Rat)	N/A	18187 ppm (Rat) 4 h
Pyridine	891 mg/kg(Rat)	1120 mg/kg(Rabbit)	4637 ppm - 5564 ppm (Rat)4 h
Acetic anhydride	630 mg/kg (Rat)	4,000 mg/kg (Rabbit)	1,000 ppm (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Tetrahydrofuran	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
5	classification results.	classification results.	classification results.
Pyridine	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	classification results.	classification results.	classification results.
Acetic anhydride			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
. ettatty at ettattatt	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS classification results.

Pyridine	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Acetic anhydride	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Skin initation/conosion					
Chemical Name		Skin corrosion/irritation source information			
Tetrahydrofuran	ydrofuran		Based on the NITE GHS classification results.		
Pyridine	dine		Based on the NITE GHS classification results.		
Acetic anhydride	E	Based on the NITE GHS classification results.		ults.	
Serious eye damage/ irritation					
Chemical Name		Serious eye damage/irritation source information			
Tetrahydrofuran	E	Based on the NITE GH	S classification resu	ults.	
Pyridine	E	Based on the NITE GH	S classification resu	ults.	
Acetic anhydride	E	Based on the NITE GH	S classification resu	ults.	
Respiratory or skin sensitization					
Chemical Name		Respiratory or Sk	in sensitization so	ource information	
Tetrahydrofuran	E	Based on the NITE GH	S classification resu	ults.	
Pyridine	E	Based on the NITE GH	S classification resu	ults.	
Acetic anhydride	E	Based on the NITE GH	S classification resu	ults.	
Reproductive cell mutagenicity	I				
Chemical Name		germ cell m	utagencity source	information	
Tetrahydrofuran	E	Based on the NITE GH			
Pyridine		Based on the NITE GH			
Acetic anhydride		Based on the NITE GH			
Carcinogenicity					
Chemical Name		Carcinoo	enicity source info	ormation	
Tetrahydrofuran	E	Based on the NITE GH			
Pyridine			HS classification results.		
Acetic anhydride		Based on the NITE GH			
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
.	1		1.0		
Tetrahydrofuran	-	-	A3	-	
Tetrahydrofuran 109-99-9	-	-	A3	-	
	-	- Group 2B	A3 A3	-	
109-99-9	-	- Group 2B		-	
109-99-9 Pyridine 110-86-1 Reproductive toxicity	-	- Group 2B		-	
109-99-9 Pyridine 110-86-1		Reproducti	A3 ve toxicity source	information	
109-99-9 Pyridine 110-86-1 Reproductive toxicity			A3 ve toxicity source	information	
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109-99-9 Pyridine 110-86-1 Reproductive toxicity Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-single exposure Chemical Name Tetrahydrofuran Pyridine Acetic anhydride		Reproducti Based on the NITE GH Based on the NITE GH Based on the NITE GH STOT -single Based on the NITE GH Based on the NITE GH Based on the NITE GH Based on the NITE GH	A3 ve toxicity source S classification resu S classification resu Classification resu S classification resu S classification resu S classification resu S classification resu S classification resu	information ults. ults. ults. information ults. ults. ults. ce information	
109-99-9 Pyridine 110-86-1 Reproductive toxicity Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-single exposure Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-repeated exposure		Reproducti Based on the NITE GH Based on the NITE GH Based on the NITE GH STOT -single Based on the NITE GH Based on the NITE GH	A3 ve toxicity source S classification resu S classification resu Classification resu S classification resu S classification resu S classification resu S classification resu S classification resu	information ults. ults. ults. information ults. ults. ults. ce information	
109-99-9 Pyridine 110-86-1 Reproductive toxicity Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-single exposure Chemical Name Pyridine Acetic anhydride STOT-repeated exposure Chemical Name		Reproducti Based on the NITE GH Based on the NITE GH Based on the NITE GH STOT -single Based on the NITE GH Based on the NITE GH Based on the NITE GH Based on the NITE GH	A3 ve toxicity source S classification resu S classification resu S classification resu exposure- source S classification resu S classification resu S classification resu S classification resu S classification resu S classification resu	information ults. ults. ults. information ults. ults. ults. ce information ults.	
109-99-9 Pyridine 110-86-1 Reproductive toxicity Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-single exposure Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-repeated exposure Chemical Name Tetrahydrofuran		Reproducti Based on the NITE GH Based on the NITE GH Based on the NITE GH STOT -single Based on the NITE GH Based on the NITE GH STOT -repeate Based on the NITE GH	A3 ve toxicity source S classification resu S classification resu	information ults. ults. ults. information ults.	
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109-99-9 Pyridine 110-86-1 Reproductive toxicity Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-single exposure Chemical Name Tetrahydrofuran Pyridine Acetic anhydride STOT-repeated exposure Chemical Name Tetrahydrofuran Pyridine Acetic anhydride Acetic anhydride Acetic anhydride Acetic anhydride Acetic anhydride		Reproducti Based on the NITE GH Based on the NITE GH Based on the NITE GH Sased on the NITE GH Based on the NITE GH	A3 ve toxicity source S classification resu S classification resu S classification resu Cassification resu S classification resu	information ults. ults. ults. information ults.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Tetrahydrofuran	LC50 : Pimephales Promelas	LC50 : Fathead minnow	EC50 : Daphnia magna
	2160 mg/L 96 h	2160 mg/L 96 h	5930 mg/L 48 h
Pyridine	ErC50 : Selenastrum	LC50 : Oncorhynchus mykiss	EC50 : Daphnia magna
	capricornutum	4.6 mg/L 96 h	520 mg/L 24 h
	0.10 mg/L 72 h	_	-
Acetic anhydride	N/A	LC50:Leuciscus idus	LC50 : Daphnia magna
-		265 mg/L 48 h	55 mg/L 24 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
Tetrahydrofuran	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	
Pyridine	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	
Acetic anhydride	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 Marine pollutant	UN2924 Flammable liquid, corrosive, n.o.s. (Tetrahydrofuran / Acetic Anhydride mixture) 3 8 II Yes
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to	UN2924 Flammable liquid, corrosive, n.o.s. (Tetrahydrofuran / Acetic Anhydride mixture) 3 8 II Yes No information available
Annex II of MARPOL 73/78 and the IBC Code IATA	

UN number	UN2924
Proper shipping name:	Flammable liquid, corrosive, n.o.s. (Tetrahydrofuran / Acetic Anhydride mixture)
UN classfication	3
Subsidiary hazard class	8
Packing group	II
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations				
Fire Service Act	Category IV, Class I petroleums, dangerous grade 2 water-soluble			
Poisonous and Deleterious	Deleterious Substances 3rd. Grade			
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)			
	Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on			
	Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)			
	Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1			
	Item 4)			
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)			
<u>2024~)</u>				
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	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding			
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)			
goods in ship				
Civil Aeronautics Law	Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of			
	Explosives etc., Attached Table 1)			
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z			
Law	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y			
Pollutant Release and Transfer	Class 1			
Register Law				
(2023.4.1-)				
Class 1 - No.	342,674,736			
Export Trade Control Order	Not applicable			
Air Pollution Control Law	Specified Substances, Hazardous Air Pollutants			

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-)
Tetrahydrofuran 109-99-9 (80)	-	Applicable	Applicable
Pyridine 110-86-1(10)	-	Applicable	Applicable
Acetic anhydride 108-24-7(10)	Applicable	Applicable	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