



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 17-May-2023

Revision Number 1.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	48 Pesticides Mixture Standard Solution WQ-5 (each 20μg/ml Acetone Solution)
Product Code	167-26003,161-26001

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Phone: +81-6-6203-3741 Fax: +81-6-6203-5964

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 use Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Flammable liquids

Serious eye damage/eye irritation

Category 2

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 2

Category 3

Category 3 Respiratory irritation, Narcotic effects

Specific target organ toxicity (repeated exposure) Category 1

Category 1 central nervous system, respiratory system, digestive system

Danger

Pictograms



Hazard statements

Signal word

H225 - Highly flammable liquid and vapor

H320 - Causes eye irritation

H361 - Suspected of damaging fertility or the unborn child

H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, respiratory system, digestive 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
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- · 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 exposed or concerned: Get medical advice/attention
- 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 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
- In case of fire: Use CO2, dry chemical, or foam for extinction

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 Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Acetone	<100	58.08	(2)-542	*	67-64-1
Benfuresate	0.0020	256.32	N/A	8-(4)-1525	68505-69-1
Triflumizole	0.0020	345.75	(5)-5717	N/A	68694-11-1
3',4'-Dichloropropionanili	0.0020	218.08	(3)-263	4-(7)-474	709-98-8
de					
Simeconazole	0.0020	293.41	N/A	N/A	149508-90-7
Thiamethoxam	0.0020	291.71	N/A	8-(7)-1280	153719-23-4
Acetamiprid	0.0020	222.67	(5)-6415	*	160430-64-8
Chlorthal dimethyl	0.0020	331.96	N/A	4-(7)-541	1861-32-1
2-Chloro-N-(4'-chloro[1,1	0.0020	343.21	N/A	8-(1)-2887	188425-85-6
'-biphenyl]-2-yl)-3-pyridin					
ecarboxamide					
Metribuzin	0.0020	214.29	N/A	8-(3)-525	21087-64-9
Cyanazine	0.0020	240.69	N/A	8-(3)-498	21725-46-2
(Z)-Tetrachlorvinphos	0.0020	365.96	(3)-3366	4-(9)-146	22248-79-9
Phosalone	0.0020	367.81	N/A	8-(7)-170,8-(7)-490	2310-17-0
Propargite	0.0020	350.47	N/A	4-(9)-175	2312-35-8
Butachlor	0.0020	311.85	N/A	4-(10)-861	23184-66-9
Orysastrobin	0.0020	391.42	N/A	4-(7)-2170	248593-16-0
CYAP	0.0020	243.22	(3)-2625	*	2636-26-2
2-Amino-3-chloro-1,4-na	0.0020	207.61	(4)-390	7-(2)-29	2797-51-5
phthoquinone					
Pirimiphos-methyl	0.0020	305.33	N/A	N/A	29232-93-7
Bromacil	0.0020	261.12	(5)-937	*	314-40-9
Metolachlor	0.0020	283.79	N/A	4-(7)-1351	51218-45-2

			_		
Chlorpyriphos-methyl	0.0020	322.53	N/A	8-(1)-1943	5598-13-0
Tebuconazole	0.0020	307.82	(5)-6229	8-(3)-803	107534-96-3
Thiacloprid	0.0020	252.72	N/A	8-(1)-2696	111988-49-9
Tetraconazole	0.0020	372.15	N/A	N/A	112281-77-3
Propoxur	0.0020	209.24	(3)-3216	4-(6)-185	114-26-1
Difenoconazole	0.0020	406.26	N/A	N/A	119446-68-3
Cyprodinil	0.0020	225.29	N/A	N/A	121552-61-2
Cyhalofop-butyl	0.0020	357.38	N/A	4-(7)-1745	122008-85-9
furametpyr	0.0020	333.81	N/A	N/A	123572-88-3
Thifluzamide	0.0020	528.06	N/A	N/A	130000-40-7
Indanofan	0.0020	340.80	N/A	N/A	133220-30-1
(E)-Metominostrobin	0.0020	284.31	N/A	N/A	133408-50-1
Pyrazoxyfen	0.0020	403.26	N/A	8-(2)-1206	71561-11-0
Prometryn	0.0020	241.36	(5)-3850	*	7287-19-6
Propaphos	0.0020	304.34	N/A	N/A	7292-16-2
Paclobutrazol	0.0020	293.79	N/A	N/A	76738-62-0
Pyraclofos	0.0020	360.80	N/A	N/A	77458-01-6
Etobenzanid	0.0020	340.20	N/A	N/A	79540-50-4
Ametryn	0.0020	227.33	(5)-3847	*	834-12-8
(S)-Uniconazole P	0.0020	291.78	N/A	8-(3)-718	83657-17-4
Cinmethylin	0.0020	274.40	N/A	N/A	87818-31-3
Cyproconazole	0.0020	291.78	(5)-6266	*	94361-06-5
Cadusafos	0.0020	270.39	N/A	2-(7)-313	95465-99-9
Dichlofenthion	0.0020	315.15	(3)-4112	4-(9)-190	97-17-6
Fosthiazate	0.0020	283.35	N/A	N/A	98886-44-3
Cumyluron	0.0020	302.80	N/A	4-(13)-173	99485-76-4
(E)-Pyriminobac-methyl	0.0010	361.35	N/A	8-(2)-1700	147411-69-6
(Z)-Pyriminobac-methyl	0.0010	361.35	N/A	8-(2)-1701	147411-70-9
(E)-Dimethylvinphos	0.0010	331.52	N/A	4-(9)-145	71363-52-5
(Z)-Dimethylvinphos	0.0010	331.52	N/A	4-(9)-145	67628-93-7

Note on ISHL No.:

Impurities and/or Additives:

Not applicable

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. Vapors may form explosive mixture

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

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. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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 Container protected from light, and store tightly closed in freezer (-20°C). Packed with an

inert gas. Store locked up.

Safe packaging material

Ampoule

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
I	Acetone	200ppm(470mg/m ³)	ISHL/ACL: 500 ppm	STEL: 500 ppm
	67-64-1		1	TWA: 250 ppm
Ī	Cadusafos	N/A	N/A	TWA: 0.001 mg/m ³ inhalable

95465-99-9		fraction and vapor
		Skin

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) Hand protection Eye protection 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

Since data of the mixture is not available, data except for the appearance is described as a Acetone.

Form

Color vellow **Turbidity** clear **Appearance** liauid

Odor characteristic odor

Melting point/freezing point -95.3 °C 56 °C Boiling point, initial boiling point and boiling range

Highly flammable liquid and vapor **Flammability**

Evaporation rate: no data available no data available Flammability (solid, gas):

Upper/lower flammability or

explosive limits

13 vol% Upper: 2.15 vol% Lower: Flash point -18 °C **Auto-ignition temperature:** 538 °C

Decomposition temperature: no data available no data available Viscosity (coefficient of viscosity) no data available

Dynamic viscosity no data available Solubilities water, Ethanol, ether: miscible.

n-Octanol/water partition coefficient:(log Pow) no data available

24.7 kPa Vapour pressure 0.792 Specific Gravity / Relative density Vapour density 2.0 (air=1) **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity 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)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	5800 mg/kg (Rat)	> 7400 mg/kg (Rabbit)	32000 ppm (Rat) 4 h(vapor)
Propaphos	72.5 mg/kg (Rat)	72.0 mg/kg (Rat)	0.039 mg/L (Rat) mist
Cadusafos	30 mg/kg (Rat)	11 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Acetone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Propaphos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Cadusafos	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
Acetone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Propaphos	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Cadusafos	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
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.

Serious eye damage/ irritation

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

Respiratory or skin sensitization

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

Reproductive cell mutagenicity

rtoproductive con matagementy	
Chemical Name	germ cell mutagencity source information
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.

Carcinogenicity

- an emergeness	
Chemical Name	Carcinogenicity source information
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Propaphos 7292-16-2		Group 2A		
Cadusafos		Group 2A		
95465-99-9		'		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.

STOT-single exposure

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

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Cadusafos	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Acetone	Based on the NITE GHS classification results.	
Propaphos	Based on the NITE GHS classification results.	
Cadusafos	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	N/A	LC50 : Fathead minnow	N/A
		>100 mg/L 96 h	
Cadusafos	N/A	LC50 : Cyprinus carpio 0.246 mg a.i./L 96 h	EC50 : Daphnia magna 0.00257 mg a.i./L 48 h NOEC : Daphnia magna 0.00181 mg a.i./L

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Acetone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Propaphos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cadusafos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer Mobility 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 UN1090
Proper shipping name: Acetone
UN classfication 3
Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1090 Proper shipping name: Acetone 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

UN number UN1090 Proper shipping name: Acetone **UN classfication**

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS TSCA

Japanese regulations

Category IV, Class I petroleums, dangerous grade 2 water-soluble Fire Service Act

Poisonous and Deleterious Deleterious Substances 2nd. Grade

Substances Control Law

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

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.17

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Working Environment Evaluation Standards, Administrative Control Levels (Law

Art.65-2, Para.1)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

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

and storage of dangerous

goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Narcotics and Psychotropics

Appendix 2 Export Approval Item

Control Law

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Acetone 67-64-1 (<100)	-	Applicable	-
Propaphos 7292-16-2 (0.0020)	Applicable	-	-
Cadusafos 95465-99-9(0.0020)	Applicable	-	-
(Z)-Dimethylvinphos 67628-93-7 (0.0010)	Applicable	-	-
(E)-Dimethylvinphos 71363-52-5 (0.0010)	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

The following contents were revised. Prodauct and company Identification. Exposure

controls/personal protection. 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