



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Mar-2024

Revision Number 1.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	CUBIC Trial Kit
Product Code	290-80801

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 useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ASkin sensitizationCategory 1Aspiration hazardCategory 1Acute aquatic toxicityCategory 3Chronic aquatic toxicityCategory 3





Signal word

Danger

Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- · Avoid release to the environment

Precautionary statements-(Response)

- 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: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting

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 Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sca /eCUBIC-1 Solution	-	N/A	N/A	N/A	N/A-29-8081
Sca /eCUBIC-2 Solution	-	N/A	N/A	N/A	N/A-29-8082
Mounting Solution 1	-	N/A	N/A	N/A	N/A-29-8083
Mounting Solution 2	=	N/A	N/A	N/A	N/A-29-8084

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.

Section 6: ACCIDENTAL RELEASE MEASURES

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

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.

Safe packaging material Glass, Polyethylene terephthalate

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

C	hemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
2,2',2	2"-Nitrilotriethanol	N/A	N/A	TWA: 5 mg/m ³
	102-71-6			

Personal protective equipment

Respiratory protection Protective mask

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

Appearance Kit (Set of mixtures)
Odor no data available
Melting point/freezing point no data available
Boiling point, initial boiling point and boiling range no data available
Flammability no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

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

Typical Component was described.

Acute toxicity

, , , , , , , , , , , , , , , , , , , ,			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2',2"-Nitrilotriethanol	4,200 - 11,300 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
i diyotiiyidiid giyodi p datyipiidiiyi			Based on the NITE GHS classification results.

Chemical Name Acute toxicity -inhalation Acute toxicity -inhalation dust- Acute toxicity -inhalation m

	vapor- source information	source information	source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Polyethylene glycol p-octylphenyl	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
ether	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
2,2',2"-Nitrilotriethanol	-	Group 3		-
102-71-6				

Reproductive toxicity

Chemical Name Reproductive toxicity		Reproductive toxicity source information
Ī	2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Ī	Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
2,2',2"-Nitrilotriethanol	Based on the NITE GHS classification results.
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Typical Component was described.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,2',2"-Nitrilotriethanol	EC50 : Scenedesmus subspicatus 169 mg/L 96 h	LC50 : Pimephales Promelas 11800 mg/L 96 h	EC50 : Daphnia magna 1386 mg/L 24 h
Polyethylene glycol	N/A	LC50 : Lepomis macrochirus	N/A

p-octylphenyl ether	3 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the aquatic environment source information
		Based on the NITE GHS classification
	results.	results.
Polyethylene glycol p-octylphenyl ether	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

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 Category IV, Class III petroleums, dangerous grade 3

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 (

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

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

Not applicable

goods in ship

Not applicable **Civil Aeronautics Law** Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

408 Class 1 - No.

Export Trade Control Order Not applicable

Pollution Release and Transfer Registry (~2023.3.31)

1 Challett Release and Transfer Region y (2020/0.01)					
Class	Chemical Name in	(Metal Name)	Control number	Content Rate	
	Regulation				
Class 1	Poly(oxyethylene)	-	408	10-20	
	octylphenyl ethers				

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Mineral oils	=<100	Existing Law
Notifiable Substances (Law Art.57-2)	Triethanolamine	10-20	Existing Law

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.

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