

# SAFETY DATA SHEET

PRODUCT NAME 10% Ethanol Solution

Data of issue 19/1/2011

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3/4/2025

Last confirmation

### 1. Identification of the substance or mixture and the supplier

Product name 10% Ethanol Solution

SDS No. GHS-0129E

Name of supplier Kyoto Electronics Manufacturing Co., Ltd.

Address 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan

Division Quality Assurance Department

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Recommended uses and restrictions on use

Recommended use For analysis

Restrictions on use When using for purposes other than those recommended, consult a specialist.

#### 2. Hazard identification

GHS classification

Physical hazards

Flammable liquids Category 3

Health hazards

Carcinogenicity Category 1A

Reproductive toxicity Category 1A

Specific target organ toxicity (repeated exposure Category 2(liver)

GHS label elements

Hazard pictograms



Signal words Danger

Hazard statements : H226 Flammable liquids and vapors.

H350 May cause cancer.

H360 May cause adverse effects on fertility or the



unborn child.

H373 May cause damage to Central Nervous System

through prolonged or repeated exposure.

Precautionary statement

Prevention P201 Obtain special instructions before use.

P210 Keep away from heat / sparks / open flames / hot

ignition sources. No smoking.

P233 Keep container tightly closed.

P260 Do not breathe dust / fume / gas / mist / vapors /

spray.

P280 Wear protective gloves / protective clothing/eye

protection / face protection.

Response P308+P313 IF exposed or concerned: Get medical

advice/attention.

P370+P378 In case of fire: Use appropriate

extinguishing media to extinguish.

Storage P403 + P235 Store in a well-ventilated place. Keep cool.

None known.

Other hazards which do not result in classification

# 3. Composition/Information on ingredients

substance / mixture

mixture

Components

No.	Chemical name	CAS No.	Concentration	ENCS / ISHL
			(% w/w)	number
1	Ethanol	64-17-5	8.1	2-202
2	Water	7732-18-5	91.9	_

### 4. First-aid measures

General advice Evacuate danger area.

Consult a doctor/physician.

Show this Safety Data Sheet to the doctor/physician.

Do not leave victim alone.

If inhaled Remove person to fresh air and keep at rest in a position comfortable for breathing.

Call a doctor/physician if you feel unwell.

In case of skin contact Wash with soap and plenty of water.

Wash contaminated clothing before reuse.



Remove contaminated clothing and shoes.

If skin irritation or rash occurs: Get medical advice/attention.

attention.

Protect uninjured eyes.

Keep eyes wide open while rinsing.

If eye irritation persists, consult a medical specialist.

Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed Rinse mouth.

Do not induce vomiting.

Eye irritation

Take victim to hospital immediately.

Most important symptoms

and effects, both acute and

delayed

Notes to physician Treat symptomatically.

### 5. Fire-fighting measures

Suitable extinguishing media Spray water, carbon dioxide (CO<sub>2</sub>), dry sand, fire retardant

Unsuitable extinguishing media Solid/strong water stream

Specific hazards during fire In case of fire, prevent water for firefighting from flowing into drains or

fighting waterways.

Specific extinguishing methods Contaminated fire wastewater must be collected. Do not discharge into

drainage systems.

Fire residues and contaminated fire wastewater must be disposed of in

accordance with applicable regulations.

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus when fighting fires, if necessary.

#### 6. Accidental release measures

Personal precautions, Use protective equipment.

protective equipment and Ensure good ventilation.

emergency procedures Remove nearby ignition sources.

Evacuate to a safe area.

Environmental precautions Do not pour this product into drains.

Stop any leaks or spills only when safe to do so.

If product contaminates rivers, lakes or drains, notify relevant authorities.



Methods and materials for Contain spillage and collect with non-combustible absorbent material (sand, earth,

containment and cleaning up diatomaceous earth, vermiculite, etc.) and place in container for disposal in

accordance with local/national regulations (see section 13).

### 7. Handling and storage

Handling

Technical measures Do not spray onto open flames or hot surfaces.

Take necessary measures to prevent static discharges (which may

ignite organic vapours).

Keep away from flames, heat and sources of ignition.

Precautions for safe handling Do not breathe vapour/dust.

Avoid contact with skin and eyes.

Smoking, eating and drinking are prohibited in work area.

Take precautionary measures against static discharge.

Ensure that work room is well ventilated and exhausted.

Wash skin thoroughly after handling.

Avoiding incompatibilities

Hygiene measures

When using do not eat or drink.

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When using do not smoke.

Wash hands before breaks and at the end of workday.

Storage

Conditions for safe storage Keep container tightly closed in a dry, well-ventilated place.

No information

Store at room temperature.

To maintain product quality, store away from heat and direct sunlight.

Further information on storage

No decomposition will occur if stored and used as directed.

stability

# 8. Exposure controls/Personal protection

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type	Control parameters /	Basis
		(Form of	Reference concentration /	
		exposure)	Permissible concentration	
Ethanol	64-17-5	STEL	1000 ppm	ACGIH

Personal protective equipment

Respiratory protection Suitable respiratory equipment

Hand protection material Protective gloves



Eye protection Safety glasses
Skin and body protection Protective suit

### 9. Physical and chemical properties

Physical state Liquid

Color Colorless and transparent

Odor Peculiar odor

Melting point / Freezing point No data available
Initial boiling point and boiling range No data available
Flammability (liquids) No data available

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit / Upper flammability limit No data available

Lower explosion limit / Lower flammability limit No data available

Flash point 48.9 ℃

Decomposition temperature

PH

No data available

No data available

Autoignition temperature

No data available

Self-Accelerating decomposition temperature

No data available

(SADT) Viscosity

Viscosity, kinematic No data available

Solubility(ies)

Water solubility

Partition coefficient: n-octanol/water

No data available

Vapor pressure

No data available

Density and / or relative density Relative density

Relative vapor density

No data available

Particle characteristics Particle size

Raily soluble

No data available

## 10. Stability and reactivity

Reactivity No data available

Chemical stability May be altered by light.

Possibility of hazardous reactions No data available

Conditions to avoid Avoid contact with heat, flames, sparks, high temperatures and direct

sunlight, static electricity and sparks.

Incompatible materials No data available



Hazardous decomposition products

Carbon monoxide, carbon dioxide

# 11. Toxicological information

Acute toxicity

Ethanol

Acute oral toxicity LD50 (Rat) 15,010 mg/kg

Acute inhalation toxicity LC50 (Rat) 124.7 mg/L, Exposure time 4 h, test environment vapor

Acute dermal toxicity LDLo (Rabbit) 20,000 mg/kg

Skin corrosion/irritation Not classified based on available information.

Serious eye damage/eye irritation Causes eye irritation.

Respiratory or skin sensitization

Skin sensitization Not classified based on available information.

Respiratory sensitization Not classified based on available information.

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity May damage fertility or the unborn child.

STOT-single exposure Not classified based on available information.

STOT-repeated exposure May cause damage to organs (liver) due to long-term or repeated exposure.

Aspiration toxicity Not classified based on available information.

Remarks Possible symptoms of overexposure include headache, dizziness, fatigue,

nausea, and vomiting.

Concentrations significantly higher than the TLV may cause coma effects.

Solvents may debride the skin.

# 12. Ecological information

**Ecotoxicity** 

Ethanol

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 13,000 mg/L, Exposure time 96 h

Toxicity to daphnia and other EC50 (Daphnia magna (Water flea)) 12,340 mg/L, Exposure time 48 h

aquatic invertebrates

Toxicity to algae/aquatic EC50 (Lemna minor (duckweed)) 3,690 mg/L, End point Growth inhibition,

plants Exposure time 7 Days

NOEC (Lemna gibba (gibbous duckweed)) 280 mg/L, End point Growth

inhibition,

Exposure time 7 Days

Toxicity to daphnia and other NOEC (Ceriodaphnia dubia (Water flea)) 9.6 mg/L, End point Reproductive



aquatic invertebrates (Chronic inhibition, Exposure time 10 Days

toxicity)

Persistence and degradability

Ethanol Biochemical oxygen demand rapidly biodegradable, Biodegradation 89 %,

Bioaccumulative potential

Ethanol Partition coefficient: n-octanol/water log Pow = - 0.31

Mobility in soil No data available
Hazardous to the ozone layer Not applicable

Other adverse effects In case of non-professional handling or disposal, environmental hazards cannot be

excluded.

### 13. Disposal considerations

Waste from Do not pour this product into drains, waterways or on the ground.

residues Do not contaminate ponds, waterways or ditches with chemicals or used containers.

Transfer to a licensed waste disposal company.

Contaminated Empty remaining container.

packaging Dispose of as with full container.

Do not reuse empty container.

### 14. Transport information

International Regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation Please refer to the law and local regulations, etc. in each country

Special precautions for user Not applicable

## 15. Regulatory information

#### 16. Other information

Citations/References

NITE-Gmiccs (National Institute of Technology and Evaluation)

NITE-CHRIP (National Institute of Technology and Evaluation)

Workplace Safety Site (Ministry of Health, Labor and Welfare)

SDS from various upstream manufacturers



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