

SAFETY DATA SHEET

PRODUCT NAME **2,4- Dichlorotoluene**

Date of issue 30/1/2012

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Last confirmation

1. Identification of the substance or mixture and the supplier

Product name	2,4-Dichlorotoluene
SDS No.	GHS-0033E
Name of supplier	Kyoto Electronics Manufacturing Co., Ltd.
Address	68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan
Division	Quality Assurance Department
Phone	+81-75-691-4121
Fax	+81-75-691-4127
Emergency phone	+81-75-691-4125
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

Health hazards

Skin corrosion / Irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3(Narcotic system)
Specific target organ toxicity (repeated exposure)	Category 2(Kidney)

Environmental hazards

Short-term (acute) aquatic hazard	Category 2
Long-term (chronic) aquatic hazard	Category 2

GHS label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist or vapors.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. Composition/Information on ingredients

substance / mixture

substance

Components

No.	Chemical name	CAS No.	Concentration (% w/w)	ENCS / ISHL number
1	2,4-Dichlorotoluene	95-73-8	>99	(3)-78

4. First-aid measures

General advice	<p>Move out of dangerous area.</p> <p>Show this material safety data sheet to the doctor in attendance.</p> <p>Do not leave the victim unattended.</p>
If inhaled	<p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p>
In case of skin contact	No information available.
In case of eye contact	<p>If eye irritation persists: Get medical advice/ attention.</p> <p>Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Rinse cautiously with water for several minutes.</p>
If swallowed	<p>Rinse mouth.</p> <p>If swallowed, DO NOT induce vomiting.</p> <p>Take victim immediately to hospital.</p>
Most important symptoms and effects, both acute and delayed	No data available
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	<p>Water</p> <p>Carbon dioxide (CO₂)</p> <p>Dry sand</p> <p>Regular foam</p>
Unsuitable extinguishing media	No data available
Specific hazards during fire fighting	<p>Thermal decomposition can release irritating and toxic gases and vapors.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses.</p>
Specific extinguishing methods	<p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</p> <p>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</p>
Special protective equipment for	Use personal protective equipment.

fire-fighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

Advice on protection against fire and explosion	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	Take measures to fully prevent the generation of electrostatic discharges near the chemical. Keep away from fire, sparks and heated surfaces. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Only use in an area with an appropriate level of exhaust ventilation.
Avoidance of contact	Strong oxidizing agents
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Storage

Conditions for safe storage	Keep in a well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Keep container tightly closed.
Further information on storage stability	No decomposition if stored and applied as directed.

8. Exposure controls/Personal protection

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

Contains no substances with occupational exposure limit values.

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, transparent
Odor	Peculiar odor
Melting point / Freezing point	198 °C
Initial boiling point and boiling range	Flammable liquid
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	102 °C
Decomposition temperature	No data available
pH	No data available
Autoignition temperature	No data available
Self-Accelerating decomposition temperature (SADT)	No data available
Viscosity	
Viscosity, kinematic	0.83 mm ² /s
Solubility(ies)	
Water solubility	No data available
Solubility in other solvents	Easily soluble in ethanol and acetone
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density and / or relative density Relative density	1.25 g/cm ³ (20°C)
Relative vapor density	No data available
Particle characteristics Particle size	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	May be altered by light
Possibility of hazardous reactions	No decomposition if stored and applied as directed.
Conditions to avoid	Avoid contact with heat, flames, sparks, high temperatures and direct sunlight, static electricity and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide, carbon dioxide, halides

11. Toxicological information

Acute toxicity	
Acute oral toxicity	LD50(Rat) 2,400 mg/kg
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Not classified based on available information.
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	Not classified based on available information.
Reproductive toxicity	May damage fertility or the unborn child.
STOT-single exposure	May cause drowsiness or dizziness.
	The substance or mixture is classified as specific target organ toxicant, single exposure, Category 3 with narcotic effects.
STOT-repeated exposure	May cause damage to organs (kidney) through prolonged or repeated exposure.
Aspiration toxicity	Not classified based on available information.
Remarks	No data available

12. Ecological information

Ecotoxicity	LC50 (Oryzias latipes) 2.7 mg/L, Exposure time 96 h
Persistence and degradability	Persistent
Bioaccumulation	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	Not applicable
Other adverse effects	No data available

13. Disposal considerations

Waste from residues	Can be incinerated, when in compliance with local regulations. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/ container to an approved waste disposal plant.

14. Transport information

International Regulations

IATA-DGR

UN / ID No.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Packing group	III
Labels	S

IMDG-Code

UN No.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Packing group	III
Marine pollutant	Applicable

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 The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

16. Other information

Citations/References

NITE-Gmiccs (National Institute of Technology and Evaluation)

NITE-CHRIIP (National Institute of Technology and Evaluation)

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

SDS from various upstream manufacturers

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, use, processing, storage, transportation, disposal and release 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.