

GHS-0033E

SAFETY DATA SHEET

PRODUCT NAME 2,4-Dichlorotoluene

Date of issue 01/30/2012

Date of revision -

1 Identification of the substance or mixture and the supplier

Product name: 2,4-Dichlorotoluene
 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 No.: +81-75-691-4125
 MSDS No. GHS-0033E

2 Hazard identification
GHS hazard class and category

Physical hazards;	Flammable liquids:	Category 4
Health hazards;	Acute toxicity (oral):	Category 5
	Germ cell mutagenicity:	Category 2
	Specific target organ systemic toxicity (single exposure):	Category 3 (Narcotic effects)
	Specific target organ systemic toxicity (repeated exposure):	Category 2 (Liver, Kidney)
Environmental hazards;	hazardous to the aquatic environment -Acute hazard:	Category 2
	hazardous to the aquatic environment -Chronis hazard:	Category 2

Other hazard identification are not shown above because of the reasons below;
 Not applicable / Classification not possible

Label elements

Pictogram



Signal word

Warning

Hazard statements	<p>Combustible liquid May be harmful if swallowed Suspected of causing genetic defects May cause respiratory irritation; or May cause drowsiness and dizziness Warning May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure Hazard statement Toxic to aquatic life Toxic to aquatic life with long lasting effects</p>
Precautionary statements	
Prevention	<p>Wear protective gloves and eye/face protection. Keep away from flames and hot surfaces. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment- if this is not the intended use.</p>
Response	<p>In case of fire, if water increases risk, use for extinction appropriate media. IF exposed or concerned: Get medical attention/advice. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention/advice if you feel unwell. Collect spillage.</p>
Storage	<p>Store locked up. Store container tightly closed in cool/well-ventilated place.</p>
Disposal	<p>Dispose of contents and container in accordance with regulation.</p>

3 Composition/Information on ingredients

Substance/Mixture: Substance
 Chemical identity 2,4-Dichlorotoluene
 (or common name):

Ingredient name	Composition (%)	Chemical formula	CAS No.
2,4-Dichlorotoluene	Min. 99.0	C7H6Cl2	95-73-8

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance;
 None

4 First-aid measures

General description of necessary first aid measures:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation:	<p>In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is weak, irregular or has stopped, open his airway, loosen his collar and belt and administer artificial respiration.</p>

Skin contact:	Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Wash skin with soap and water.
Eye contact:	Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. If swallowed rinse mouth with water (only if the person is conscious). Do not make an unconscious person vomit.
Protections for first-aid persons:	Protect yourself by wearing rubber gloves and air-tight safety goggles.

5 Fire-fighting measures

Extinguishing media:	In case of fire, use water mist, foam/water resistant foam, powder, CO2, dry sand. Use extinguishing media appropriate to surrounding fire conditions.
Incompatible extinguishing media:	Do not use straight streams.
Specific hazards arising from the chemical (and with regard to fire-fighting measures):	During a fire, irritating and/ or highly toxic gases may be generated by thermal decomposition or combustion. Toxic gases will form upon combustion of : carbon monoxide / hydrogen chloride
Specific fire-fighting measures:	Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area. Dry chemical powder or dry sand should be used for small fires.
Special protective equipment and precautions for fire-fighters:	Fire-fighters should wear proper protective equipment.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Evacuate non-essential personnel. Wear appropriate protective clothing.
Environmental precautions:	Attention should be given not to cause damage to the environment by flowing of spillage to rivers.
Measures and materials for containment and clean up:	For small spill, absorb spill with absorbent and move to a chemical waste container. For large spill, prevent leakage by surrounded with earth and lead the spill to a safety place to collect.
Appropriate containment techniques/clean up procedures:	Shut off the leakage source and stop leak if you can do it without risk.

7 Handling and storage

Precautions for safe handling:

Countermeasure technique(s):	(Exposure control for handling personnel) Wear proper equipment and take measures according to [8. Exposure control/personal protection].
Local exhaust ventilation system/general ventilation:	Ventilation according to [8. Exposure control/personal protection].
Preventive measures:	Use with an enclosed system or a local exhaust ventilation.
Incompatible contact(s):	See [10. Stability and reactivity]
Safety measures/incompatibility:	Do not shock, overturn, drop, or drag containers.
Conditions for safe storage, including any incompatibilities:	
Countermeasure technique(s):	Take precautionary measures against static discharges. Take measures to prevent electrostatic charging. Keep away from sources of ignition and heat. Tightly closed in a well-ventilated place.
Incompatibilities:	See [10. Stability and reactivity]
Storage:	(Recommendation for storage) Keep tightly closed in dark cool place. (incompatible storage condition) See [10. Stability and reactivity].
Recommendation on container and packaging materials:	Glass, etc.

8 Exposure controls/Personal protection

Appropriate engineering controls:	Keep source tightly closed or install local exhaust ventilation. Provide shower and vanity unit nearby and make clear the location of these.
Control value:	Japan control value (2005) Not established.
Adopted value:	[JSOH] Not established. [ACGIH] Not established.
Individual protection measures, such as personal protective equipment (PPE):	
Eye/face protection:	Wear protective eyeglasses or chemical safety goggles. Wear face protection.
Hand protection:	Wear impervious glove made from chloroprene, as appropriate.
Skin and body protection:	To prevent any contact, wear impervious clothing such as apron, boots, or whole-body suits made from chloroprene, as appropriate.
Respiratory protector:	Wear positive pressure self-contained breathing apparatus (SCBA). Gas masks for organic compounds

9 Physical and chemical properties

Appearance, color:	Very pale yellow liquid
--------------------	-------------------------

Odor:	Characteristic odor
pH:	Not available
Melting point/ freezing point:	Approx. -14C
Boiling point:	200C
Flash point:	80C
Auto-ignition temperature:	450C
Upper/lower flammability or explosive limits:	Lower limit; 1.5vol% Upper limit; 6.5vol%
Vapour pressure:	0.06kPa (25C)
Vapour density (Air = 1):	Not available
Specific gravity (Density):	1.249g/cm ³ (20C)
Solubility:	Solubility in water; Insoluble Solubility in solvent; Very soluble in ethanol and diethyl ether
Octanol/water partition coefficient (log Pow):	4.24
Decomposition temperature:	Not available
Viscosity:	Not available

10 Stability and reactivity

Chemical stability:	This product is considered a stable material under normal and anticipated storage and handling conditions.
Possibility of hazardous reactions:	May react with oxidizing agents.
Conditions to avoid:	Sunlight, heat, contact with incompatible materials.
Incompatible materials:	Strong oxidants.
Hazardous decomposition products:	Toxic fumes of chloride / hydrogen chloride (except for carbon monoxide, carbon dioxide and water)

11 Toxicological information

(Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.)

Acute toxicity:	May be harmful if swallowed.
Oral:	rat LD50 2790 mg/kg
Irritant properties:	May Irritate the eyes and skin.
Allergenic and sensitizing effects:	Not available
Chronic toxicity:	May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure.

Carcinogenic effects:

Not available

Mutagenic effects:

Not available

Toxicity for reproduction:

Possible risk impaired fertility.

Possible risk of harm to the unborn child.

12 Ecological information

(Insufficient data are available on the effect of this substance on the environment, therefore utmost care must be taken.)

Ecotoxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fish toxicity:

Medaka, high-eyes LC50/96H 2.7 mg/L

Persistence and degradability:

Not available

Bioaccumulative potential:

Hardly biodegradability

0% by BOD (National institute of Technology and Evaluation, Japan)

Biotransportability:

Low residuality in fish or shells.

13 Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Comply with all country, national and local regulations. Do not dump this product into sewers, on the ground or into any body of water.

14 Transport information

Basic classification information for the transporting/shipment:

Sea; Not controlled under IMDG's regulations.

Air; Not controlled under ICAO/IATA's regulations.

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

Protection from direct sun light in transportation, and confirm the container does not leak.

Carefully load it onto a transporter without dropping, overturning or damaging so that it will stably stays on the transporter.

15 Regulatory information

Follow all laws and regulations in your country.

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is



01/30/2012

applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.