

GHS-0041E

SAFETY DATA SHEET

PRODUCT NAME **Brix solution**
(5%, 10%, 20%, 30%, 40%, 50%)

Data of issue 01/30/2012
Date of revision -

1 Identification of the substance or mixture and the supplier

Product name: Brix solution (5%, 10%, 20%, 30%, 40%, 50%)
 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-0041E

2 Hazard identification

GHS hazard class and category

Classification not possible

Label elements

Pictogram -

Signal word -

Hazard statements -

Other hazard statements Wear suitable protective clothing, gloves and eye/face protection.
 Avoid contact with skin and eyes.
 In case of contact with eyes, rinse immediately with plenty of water and seek.
 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

3 Composition/Information on ingredients

Substance/Mixture: Mixture
 Chemical identity Brix solution
 (or common name):

Ingredient name	Composition (%)	Chemical formula	CAS No.
Brix solution	—*	C12H22O11	57-50-1

*Content of brix are; 5%, 10%, 20%, 30%, 40%, 50%.

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:	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.
Skin contact:	Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of 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 resistance foam, powder, CO2, dry sand. Use extinguishing media appropriate to surrounding fire conditions.
Incompatible extinguishing media:	Nothing particular.
Specific hazards arising from the chemical (and with regard to fire-fighting measures):	Toxic gases will form upon combustion of : Carbon monoxide
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:	Nothing particular.
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):	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, polyethylene, polypropylene, 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] TWA: 10 mg/cm ³ (Sucrose)
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:	Colorless liquid
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Odor:	None
pH:	Not available
Melting point/ freezing point:	Not available
Boiling point:	Not available
Flash point:	Not available
Auto-ignition temperature:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density (Air = 1):	Not available
Specific gravity (Density):	Not available
Solubility:	Solubility in water; Very soluble Solubility in solvent; Very slightly soluble in ethanol
Octanol/water partition coefficient (log Pow):	Not available
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:	React with strong oxidants.
Conditions to avoid:	Sunlight, heat, contact with incompatible materials.
Incompatible materials:	Strong oxidants
Hazardous decomposition products:	Not available (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:

Oral: rat LD50 29700 mL/kg

Irritant properties: May cause mechanical irritation to the eyes and respiratory. (as dust)

Allergenic and sensitizing effects:

Not available

Chronic toxicity:

Not available

Carcinogenic effects:

Not available



Mutagenic effects:
Not available

Toxicity for reproduction:
Not available

12 Ecological information

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

Ecotoxicity:
Not available

Persistence and degradability:
Not available

Bioaccumulative potential:
Not available

Biotransportability:
Not available

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