

SAFETY DATA SHEET

PRODUCT NAME **Brix solution**

Data of issue 15/6/2011

Date of revision 2/4/2024
(Confirmation)

1. Identification of the substance or mixture and the supplier

Product name Brix solution
 SDS No. GHS-0041E
 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
 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 Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).
 GHS label elements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).
 Other hazards which do not result in classification
 Important symptoms and outlines of the emergency assumed None known.

3. Composition/Information on ingredients

substance / mixture mixture

Components

| No. | Chemical name | CAS No. | Concentration (% w/w) | ENCS / ISHL number |
|-----|---------------|-----------|--------------------------|-----------------------|
| 1 | Water | 7732-18-5 | 95-50% ^{※)} | — |
| 3 | Sucrose | 57-50-1 | 5-50% ^{※)} | 8-4-345 |

※) Depends on the specifications (concentration of sucrose = 100 - concentration of water)

4. First-aid measures

| | |
|---|---|
| General advice | Do not leave the victim unattended. |
| If inhaled | Remove victim to fresh air. Call a doctor/physician if you feel unwell. |
| In case of skin contact | Wash off with soap and plenty of water. If symptoms persist, contact a physician. |
| In case of eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact a physician immediately. |
| If swallowed | Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth if unconscious. If large quantities of this material are swallowed, call a physician immediately. |
| Most important symptoms and effects, both acute and delayed | No information |
| Notes to physician | Treat symptomatically. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | This product does not burn itself. Use extinguishing media suitable for the surrounding conditions. |
| Unsuitable extinguishing media | None in particular |
| Specific hazards during fire fighting | No information available. |
| Specific extinguishing methods | Standard procedure for chemical fires. |
| Special protective equipment for fire-fighters | Use personal protective equipment. |

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 | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal |

containment and cleaning up binder, sawdust).
 Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

| | |
|-------------------------|--|
| Advice on safe handling | Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. |
| Avoidance of contact | No information available. |
| 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. Store at room temperature. 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 and transparent |
| Odor | Odorless |
| 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 No data available

Decomposition temperature No data available

pH 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 this product self-aqueous solution

Solubility in other solvents No data available

Partition coefficient: n-octanol/water No data available

Vapor pressure No data available

Density and / or relative density Relative density 1.1 g/cm³ at 20 °C (25 %(w/w))

Relative vapor density No data available

Particle characteristics Particle size No data available

10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions No data available

Conditions to avoid Extreme temperatures and direct sunlight

Incompatible materials No data available

Hazardous decomposition products No data available

11. Toxicological information

Acute toxicity Not classified based on available information.

Sucrose

Acute oral toxicity LD50 29,700 mg/kg

Skin corrosion/irritation Not classified based on available information.

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 | Not classified based on available information. |
| STOT-single exposure | Not classified based on available information. |
| STOT-repeated exposure | Not classified based on available information. |
| Aspiration toxicity | Not classified based on available information. |
| Remarks | No data available |

12. Ecological information

| | |
|-------------------------------|-------------------|
| Ecotoxicity | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | 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 | |
| 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

Full text of other abbreviations

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System.

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