

Material Safety Data Sheet

Date : 2018/12/18 Version : 01

SECTION 1.

Identification of the Substance / Mixture and of the Company

Product identifier:

CL-W245-OS00BU-A T1000 Coolant Blue
CL-W245-OS00PL-A T1000 Coolant Purple
CL-W245-OS00RE-A T1000 Coolant Red
CL-W245-OS00TR-A T1000 Coolant Pure Clear
CL-W245-OS00GR-A T1000 Coolant Green
CL-W245-OS00OR-A T1000 Coolant Orange
CL-W245-OS00YE-A T1000 Coolant Yellow
CL-W245-OS00AG-A T1000 Coolant Acid Green

Relevant identified uses:

Radiator Additives for PC cooling

Details of the supplier of the safety data sheet

Thermaltake Technology Co., Ltd.
5F, No. 185, Sec.2, Tiding Blvd., Neihu Dist., Taipei City 114, Taiwan

Information about the product:

SECTION 2. Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

SECTION 3. Composition / Information on Ingredients

Substances

Synonyms : Coolant, Heat dissipation liquid,

Formula : N/A

Molecular Weight : N/A

Hazard Classification	Wt%	CAS No
Ultra-Pure Water	94	7732-18-5
1,2-Propanediol	6	57-55-6
L-Glutamic acid, N,N-diacetic acid tetrasodium salt	0.1~0.3	51981-21-6

SECTION 4. First-Aid Measures

Description of first aid measures

-General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

-If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

-In case of skin contact

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

-If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression

Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

SECTION 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7. Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Hygroscopic. Light sensitive.

Specific end uses

no data available

SECTION 8. Exposure Control / Personal Protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

-Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

-Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

-Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 480 min

Material tested: Dermatril® (Aldrich Z677272, Size M)

Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 30 min

Material tested: Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de,

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

-Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

-Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9. Physical and Chemical Properties

Information on basic physical and chemical properties

- A. Appearance
Form: liquid, clear, viscous
Colour: colourless
- B. Odour : no data available
- C. Odour Threshold : no data available
- D. pH : no data available
- E. Freezing point : -5 ~ -10 °C
- F. Boiling point : 90 - 100°C
- G. Flash point : 103 °C - closed cup
- H. Evaporation rate : no data available
- I. Flammability (solid, gas) : no data available
- J. Upper/lower flammability or explosive limits
Upper explosion limit: 12,5 %(V)
Lower explosion limit: 2,6 %(V)
- K. Vapour pressure : 0,11 hPa at 20 °C
- L. Vapour density : 1.1 (Air = 1.0)
- M. Relative density : 1,036 g/mL at 25 °C
- N. Water solubility : 100% soluble
- O. Partition coefficient: n- octanol/water : no data available
- P. Autoignition temperature : no data available
- Q. Decomposition temperature : no data available
- R. Viscosity : no data available
- S. Explosive properties : no data available
- T. Oxidizing properties : no data available

Other safety information

no data available

SECTION 10. Stability and Reactivity

Reactivity

no data available

Chemical stability

no data available

Possibility of hazardous reactions

no data available

Conditions to avoid

Exposure to moisture.

Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

Hazardous decomposition products

Other decomposition products - no data available

SECTION 11. Toxicological Information - Continuation

TOXICOLOGICAL INFORMATION

-Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 20.000 mg/kg

LD50 Dermal - rabbit - 20.800 mg/kg

LD50 Intramuscular - rat - 14 g/kg

LD50 Intravenous - dog - 26 g/kg

LD50 Intraperitoneal - rat - 6.660 mg/kg

LD50 Subcutaneous - rat - 22.500 mg/kg

LD50 Intravenous - rat - 6.423 mg/kg

LD50 Intraperitoneal - mouse - 9.718 mg/kg

Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen. LD50 Subcutaneous - mouse - 17.370 mg/kg

Remarks: Behavioral: Change in motor activity (specific assay). Behavioral: Muscle contraction or spasticity.

Cyanosis

LD50 Intravenous - mouse - 6.630 mg/kg

LD50 Intravenous - rabbit - 6.500 mg/kg

Skin corrosion/irritation

Skin - Human - Mild skin irritation - 7 d

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

-IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion : May be harmful if swallowed.

Skin : May be harmful if absorbed through skin. May cause skin irritation.

Eyes : Causes eye irritation.

Signs and Symptoms of Exposure

Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression

Additional Information

RTECS: TY2000000

SECTION 12. Ecological Information

Toxicity

-Toxicity to fish :

mortality NOEC - Pimephales promelas (fathead minnow) - 52.930 mg/l - 96 h

-Toxicity to daphnia and other aquatic invertebrates :

mortality NOEC - Daphnia - 13.020 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - > 10.000 mg/l - 48 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Results of PBT and vPvB assessment

no data available

Other adverse effects

no data available

SECTION 13. Disposal Considerations

Waste treatment methods

-Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

-Contaminated packaging

Dispose of as unused product.

SECTION 14. Transport Information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID : no IMDG Marine pollutant : no IATA : no

Special precautions for user

no data available

SECTION 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

no data available

SECTION 16. Other Information

Further information

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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.

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