



1. Manufacturer Information

Company: Koolance Incorporated
Address: 2840 West Valley Highway North
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2. Product Description and Composition

Koolance liquid cooling fluid for computers and electronics. Various colors, shipped in double-sealed vinyl bags or plastic bottles. Product codes beginning with “**LIQ-702**”.

- Distilled Water: 70 wt%
- Propylene Glycol: 27 wt% (CAS #:57-55-6)
- Additives: 3 wt%

3. Hazard Information

- Nonflammable
- Noxiousness: Do not swallow

4. First Aid Measures

- After Eye Contact: Rinse the eyes for 15 minutes with flowing water. If symptoms remain, consult a medical doctor immediately.
- After Skin Contact: Instantly remove with tissues or towels. Then wash with lots of water and soap followed by thorough rinsing. If you feel pain or experience irritation, consult a medical doctor immediately.
- After Swallowing: Do not induce vomiting. If symptoms arise, consult a medical doctor immediately.

5. Accidental Release Measure

- In small quantities, absorb with sand, tissues, sawdust, or put in hollow container and wash the area with water.
- In case of large quantities, prevent outflow by using soil or sand and suck with pump.

6. Handling and Storage

- Pay attention in order to avoid formation of vapors.
- Ensure good ventilation
- If using a large quantity, wear suitable protective equipment so as to protect skin, eyes, etc.

7. Exposure Control and Personal Equipment

- Permissible concentration: ACGIH; not set up
- Components with critical values that require monitoring at the workplace: None
- Installation Measures: 1) Consider the specific conditions of user's workplace in advance, 2) Provide adequate ventilation, 3) Pay attention to the electric current of the equipment for mixing, transportation, etc.

8. Physical and Chemical Properties

- Appearance: Blue water-like liquid
- Boiling Point: 103°C
- Vapor Pressure: 17 mmHg (20°C)
- Volatility: not determined
- Specific Gravity: 1.03 (20/20°C)
- pH: 7.3
- Solubility in water: Soluble in water at room temperature

9. Stability and Reactivity

- Ignition temperature: not determined
- Flash Point: none
- Flammability: none
- Self reaction/Explosion: none
- Stability/Reaction: Stable
- Oxidation: none

10. Toxicological Information

- Corrosion on skin: none
- Irritation on skin, eyes: very mild, but keep away from long-period contact
- Acute Toxicity: LD₅₀ 67 g/kg (oral, rat)
LD₅₀ 80 g/kg (oral, mouse)
- Sub-acute toxicity: unknown
- Skin sensitization: unknown
- Chronic toxicity: Swallowing test 8% propylene glycol to dog for 2 years- no damage found.
- Cancer Inducement: not found in various animal test.
- Tetratogenicity: no report on this
- Reproductive toxicity: unknown
- Muragenicity: None

11. Ecological Information

- Decomposition: good
- Accumulation: no effect
- Fish toxicity: Goldfish ; TLM₉₆ > 3300 mg/l

12. Disposal Consideration

- Product: Do not allow waste water to the ground and/or sewage.
- Unused Packing: Disposal must be made according to official regulations.

13. Transport Information

- Land Transport: According to relevant regulation
- Marine Transport: According to relevant regulation
- Air Transport: According to relevant regulation

14. Other Information & References

This data is based on present knowledge, however, shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

- Trancik, R. j. et al. :Contact Dermatitis. 8, 185~189(1982)
- Zesch, A. :Dermatitis 31, Nr. 3, 74~78(1983)
- NIOSH :Registry of Toxic Effect of Chemical Substance(1985~86)
- Gannt, I.F. et al. :Fd. Cosmet. Toxicol. 10, 151~162(1972)
- Patty's Industrial Hygiene and Toxicology, 3rd Reuised Ed(1982)
- Harnish,s. :Arsh. Gefluegelkud. 37, 187(1973)
- Weil, c. s. et al. :Food Cosmet. Toxicol. 9, 479(1971)
- Haworth, s. et al. :Environ. Mutagenesses5, 14~15, 46~47, 126~127(1983)
- Isidate,m., Ed. :Chromosomal Aberration Test in vitro, L.I.c., Inc., Tokyo(1987)
- Gulai, D. K. et al. :Med & Boil., 86(10), 35(1986)
- Dangerous Material Handbook