

# K Kool-P 50% Clear

## 1. Product and Company Identification

### 1.1 Product identifiers

Product Name: K Kool-P 50% Clear  
Distributor: Dimplex Thermal Solutions  
Product Number: Not available.  
CAS-No.: Not available.

### 1.2 Identified uses of the product and uses advised against

Identified Uses: Heat transfer fluid.

### 1.3 Details of the chemical supplier

Company: Dimplex Thermal Solutions  
2625 Emerald Drive  
Kalamazoo, MI 49001  
USA  
Telephone: 1 (800) YOU KOOL

### 1.4 Emergency telephone number

Within the U.S.: +1 800-424-9300 (CHEMTREC)  
Outside the U.S.: +1 703-527-3887 (CHEMTREC)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

## 3. Composition/Information on Ingredients

### 3.1 Product mixture

Synonyms: Mixture.  
Molecular Wt: Not available.  
CAS-No.: Not available.

Ingredients	Classification	CAS-No.	Concentration
Propylene glycol	Not hazardous	57-55-6	44-50%
Deionized water	Not hazardous	7732-18-5	50%
Inhibitor solution (trade secret)	Not hazardous	n/a	<6%

## 4. First Aid Measures

### 4.1 Description of first aid measures

**Skin exposure**

Wash off with soap and water. Consult a physician.

**Eye exposure**

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

**Inhalation**

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

**Ingestion**

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

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

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**5. Fire Fighting Measures****5.1 Suitable (and unsuitable) extinguishing media**

Suitable: Water spray, carbon dioxide, foam, dry chemical, Halon, any "ABC" class.

**5.2 Specific hazards arising from the chemical**

When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides).

**5.3 Advice for firefighters**

Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmental areas.

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**6. Accidental Release Measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Proper protective equipment should be used. In case of an uncontrolled release, clear the affected area, protect people, and respond with trained personnel. Avoid breathing vapors. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Small spill: Cover with absorbent material (floor absorbent, vermiculite, etc.). Soak up spill and place material into a drum.

Large spill: Wear protective equipment. Stop spill at source, dike the area surrounding the spill to prevent further exposure. Prevent material from entering sewer system. If necessary, absorbents such as vermiculite, clay floor absorbent may be used on spill and shoveled into drums.

**6.4 References to other sections**

For disposal see section 13.

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**7. Handling and Storage****7.1 General hygiene considerations**

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

## 7.2 Precautions for safe handling

Use in a well-ventilated location. Open drums and other containers of this product slowly, on a stable surface. Drums and other containers of this product should be properly labeled. Keep containers tightly closed.

## 7.3 Conditions for safe storage, including any incompatibilities

Move drums of this product carefully, with the appropriate drum-handling equipment. Store drums and other containers in cool, dry locations, away from direct sunlight, or sources of intense heat. Storage areas should be made of fire-resistant materials. Keep containers away from incompatible chemicals.

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## 8. Exposure Controls/Personal Protection

### 8.1 Control and exposure limits recommended by the chemical manufacturer

USA Workplace Environmental Exposure Levels (WEEL): 10 mg/m<sup>3</sup> (propylene glycol, TWA value)

### 8.2 Appropriate engineering controls

Use with adequate ventilation to minimize exposure to mists or sprays of this product. Prudent practice is to ensure eyewash/safety shower stations are available near areas where this product is used. Monitoring of oxygen level is recommended.

### 8.3 Individual protection measures, such as personal protective equipment

All personnel handling the product should use a personal protective equipment level D.

#### Respiratory protection

None needed for normal circumstances of use. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.

#### Eye protection

Wear safety glasses with side shields.

#### Hand protection

Wear butyl rubber, natural rubber, neoprene, Nitrile rubber, or other suitable gloves for routine industrial use.

#### Body protection

Wear impervious clothing.

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## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

a) Physical state	Liquid.
b) Color	Clear, colorless
c) Odor	Odorless. Odor threshold: No data available.
d) Melting/freezing point	-51.1°C (-60°F), for 95% concentration.
e) Boiling point	>100°C (>212°F)
f) Flammability	Can burn at 100% concentration
g) Upper/lower flammability or explosive limits	Upper (UEL): 12.5% (V) Lower (LEL): 2.6% (V) [UEL/LEL for propylene glycol]
h) Flash point	None for concentrations <80%
i) Auto-ignition temperature	371.1°C (700°F) [for propylene glycol]
j) Decomposition temperature	Not available.
k) pH	5.0 – 8.0
l) Kinematic viscosity	>1.0 mm <sup>2</sup> /s at 25°C (77°F)

m) Water solubility	Soluble.
n) Partition coefficient: n-octanol/water	logP = -1.41, -0.30
o) Vapor pressure	0.08 mmHg at 25°C (77°F)
p) Density	1.0 – 1.1 g/cm <sup>3</sup> at 25°C (77°F)
q) Vapor density	2.62 (Air = 1.0)
r) Particle characteristics	Not applicable

## 9.2 Other information

None.

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## 10. Stability and Reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under ordinary conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Stable under ordinary conditions of use and storage.

### 10.4 Conditions to avoid

Contact with incompatible chemicals and exposure to extremely high temperatures.

### 10.5 Incompatible materials

Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.

### 10.6 Hazardous decomposition products

Mainly carbon dioxide and carbon monoxide.

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

For propylene glycol

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: 6,600 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; 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. Result: mild skin irritation, 7d.

#### Serious eye damage/eye irritation

Eyes – rabbit. Result: mild eye irritation.

**Suspected cancer agent**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, OSHA, or IARC.

**Irritancy of product**

This product may cause irritation to contaminated tissues.

**Reproductive toxicity**

This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

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**12. Ecological Information****12.1 Ecotoxicity (aquatic and terrestrial)**

This product may be harmful to aquatic life if large quantities are released into bodies of water.

Propylene glycol

Toxicity to fish: Mortality NOEC – Pimephales promelas (fathead minnow) – 52,930 mg/L, 96h.

Toxicity to invertebrates: Mortality NOEC – Daphnia – 13,020 mg/L, 48h.  
EC50 – Daphnia magna (water flea) – 13,020 mg/L, 48h.

**12.2 Persistence and degradability**

The components of this product will degrade over time into organic compounds.

**12.3 Mobility in soil**

No data available.

**12.4 Other adverse effects**

None.

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**13. Disposal Considerations****13.1 Waste treatment methods**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

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**14. Transport Information**

UN Number: Not applicable.

UN Proper Shipping Name: Not applicable.

Packing Group: Not applicable.

**DOT**

Not dangerous goods.

**IMDG**

Not dangerous goods.

**IATA**

Not dangerous goods.

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**15. Regulatory Information****SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

<b>SARA 313</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312</b>	No SARA hazards
<b>Massachusetts Right To Know</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right To Know</b>	Propane-1,2-diol                      CAS-No. 57-55-6
<b>New Jersey Right To Know</b>	No components are subject to the New Jersey Right to Know Act.
<b>TSCA</b>	All components of this product are on the Toxic Substance Control Act Inventory.
<b>EINECS</b>	All components of this product are on the European Inventory of Existing Commercial Chemical Substances.
<b>California Prop 65</b>	This product does not contain ingredients that cause cancer or reproductive harm known to the state of California.
<b>Canada DSL</b>	All components of this product are on the Canadian Domestic Substance List.

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## 16. Other Information

Hazard Statement: Not a hazardous substance or mixture.

**Revision Date:** 5 February 2024

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Dynalene Heat Transfer Fluids assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Dynalene Heat Transfer Fluids assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.