



# K KOOL-E 45% PINK

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/18/2015 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : K KOOL-E 45% PINK  
Product code : 33190

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Heat Transfer Fluid, Coolant, etc...

#### 1.3. Details of the supplier of the safety data sheet

Interstate Chemical Company, Inc.  
2797 Freedland Road  
Hermitage, PA 16148-0210 - United States  
T 800-422-2436 - F (724) 509-1015  
[herm-eh&s@interstatechemical.com](mailto:herm-eh&s@interstatechemical.com) - [www.interstatechemical.com](http://www.interstatechemical.com)

#### 1.4. Emergency telephone number

Emergency number : For 24-Hour Emergency Information Call Chemtrec: +1 (800) 424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Acute Tox. 4 (Oral) H302  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H302 - Harmful if swallowed  
Precautionary statements (GHS-US) : P264 - Wash ... thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell  
P330 - Rinse mouth  
P501 - Dispose of contents/container to a hazardous or special waste collection point, an approved waste disposal plant, an authorized waste collection point, an industrial incineration plant, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

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| Name                                | Product identifier    | %    | Classification (GHS-US)   |
|-------------------------------------|-----------------------|------|---------------------------|
| DEIONIZED WATER                     | (CAS No) 7732-18-5    | 55   | Not classified            |
| ethylene glycol                     | (CAS No) 107-21-1     | 45   | Acute Tox. 4 (Oral), H302 |
| CORROSION INHIBITORS AND pH BUFFERS | (CAS No) Trade Secret | < 10 | Not classified            |
| LIQUID DYE                          | (CAS No) Mixture      | < 1  | Not classified            |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| K KOOL-E 45% PINK |                                    |                       |
|-------------------|------------------------------------|-----------------------|
| ACGIH             | ACGIH Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> |
| ACGIH             | Remark (ACGIH)                     | URT & eye irr         |
| OSHA              | Not applicable                     |                       |

| ethylene glycol (107-21-1) |                                    |                       |
|----------------------------|------------------------------------|-----------------------|
| ACGIH                      | ACGIH Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> |
| ACGIH                      | Remark (ACGIH)                     | URT & eye irr         |
| OSHA                       | Not applicable                     |                       |

| DEIONIZED WATER (7732-18-5) |                |  |
|-----------------------------|----------------|--|
| ACGIH                       | Not applicable |  |
| OSHA                        | Not applicable |  |

| CORROSION INHIBITORS AND pH BUFFERS (Trade Secret) |                |  |
|--|----------------|--|
| ACGIH  | Not applicable |  |
| OSHA   | Not applicable |  |

| LIQUID DYE (Mixture) |                |  |
|----------------------|----------------|--|
| ACGIH                | Not applicable |  |
| OSHA                 | Not applicable |  |

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Clear, Pink Liquid.  
Color : pink  
Odor : characteristic  
Odor threshold : No data available  
pH : 8 (≥ 9.5)  
Melting point : 0  
Freezing point : -13 °F  
Boiling point : 223 °F  
Flash point : Not Applicable

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|   |   |
|---|---|
| Relative evaporation rate (butyl acetate=1) | : < 1   |
| Flammability (solid, gas)                   | : No data available   |
| Explosion limits                            | : 3 - 15 vol %  |
| Explosive properties                        | : No data available   |
| Oxidizing properties                        | : No data available   |
| Vapor pressure                              | : ≈ 9.47 mm Hg (At 68°F)  |
| Relative density                            | : 1.0595 (Water=1 at 68°F)  |
| Relative vapor density at 20 °C             | : 1.92  |
| Specific gravity / density                  | : 8.47 lb/gal (At 68°F)   |
| Solubility                                  | : Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in acetic acid. Soluble in glycerol. Soluble in pyridine.<br>Ethanol: Complete<br>Acetone: Complete |
| Log Pow                                     | : -1.34 (Experimental value)  |
| Log Kow                                     | : No data available   |
| Auto-ignition temperature                   | : No data available   |
| Decomposition temperature                   | : >   |
| Viscosity                                   | : No data available   |
| Viscosity, kinematic                        | : 18.86 mm <sup>2</sup> /s (20 °C)  |
| Viscosity, dynamic                          | : 0.021 Pa.s (20 °C)  |

### 9.2. Other information

|                          |                         |
|--------------------------|-------------------------|
| Specific conductivity    | : 116 µS/m              |
| Saturation concentration | : 0.31 g/m <sup>3</sup> |
| VOC content              | : 0 %                   |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| <b>K KOOL-E 45% PINK</b>          |                                      |
| ATE US (oral)                     | 515.464 mg/kg body weight            |
| <b>ethylene glycol (107-21-1)</b> |                                      |
| LD50 oral rat                     | > 5000 mg/kg (Rat; Literature study) |
| ATE US (oral)                     | 500.000 mg/kg body weight            |

|                               |                                   |
|-------------------------------|-----------------------------------|
| Skin corrosion/irritation     | : Not classified<br>pH: 8 (≥ 9.5) |
| Serious eye damage/irritation | : Not classified<br>pH: 8 (≥ 9.5) |

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|   |   |   |
|---|---|---|
| Respiratory or skin sensitization                   | : | Not classified  |
| Germ cell mutagenicity                              | : | Not classified  |
| Carcinogenicity                                     | : | Not classified  |
| Reproductive toxicity                               | : | Not classified  |
| Specific target organ toxicity (single exposure)    | : | Not classified  |
| Specific target organ toxicity (repeated exposure)  | : | Not classified  |
| Aspiration hazard                                   | : | Not classified  |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. Harmful if swallowed. |
| Symptoms/injuries after ingestion                   | : | Swallowing a small quantity of this material will result in serious health hazard.      |

## SECTION 12: Ecological information

### 12.1. Toxicity

| ethylene glycol (107-21-1) |   |
|----------------------------|---|
| LC50 fish 1                | 53000 mg/l (96 h; Pimephales promelas; Static system)                   |
| EC50 Daphnia 1             | > 10000 mg/l (24 h; Daphnia magna)                                      |
| LC50 fish 2                | 40761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system) |
| Threshold limit algae 1    | > 10000 mg/l (168 h; Scenedesmus quadricauda)                           |
| Threshold limit algae 2    | 2000 mg/l (192 h; Microcystis aeruginosa)                               |

### 12.2. Persistence and degradability

| K KOOL-E 45% PINK               |  |
|---------------------------------|--|
| Persistence and degradability   | Not established.   |
| ethylene glycol (107-21-1)      |  |
| Persistence and degradability   | Readily biodegradable in water. Biodegradable in the soil. |
| Biochemical oxygen demand (BOD) | 0.47 g O <sub>2</sub> /g substance                         |
| Chemical oxygen demand (COD)    | 1.24 g O <sub>2</sub> /g substance                         |
| ThOD                            | 1.29 g O <sub>2</sub> /g substance                         |
| BOD (% of ThOD)                 | 0.36 % ThOD  |

### 12.3. Bioaccumulative potential

| K KOOL-E 45% PINK             |  |
|-------------------------------|--|
| Log Pow                       | -1.34 (Experimental value)                     |
| Bioaccumulative potential     | Not established.                               |
| ethylene glycol (107-21-1)    |  |
| BCF fish 1                    | 10 (72 h; Leuciscus idus)                      |
| BCF other aquatic organisms 1 | 0.21 - 0.6 (Procambarus sp.; Chronic)          |
| BCF other aquatic organisms 2 | 190 (24 h; Algae)                              |
| Log Pow                       | -1.34 (Experimental value)                     |
| Bioaccumulative potential     | Low potential for bioaccumulation (BCF < 500). |

### 12.4. Mobility in soil

| ethylene glycol (107-21-1) |                   |
|----------------------------|-------------------|
| Surface tension            | 0.048 N/m (20 °C) |

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

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Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III

UN-No.(DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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### Additional information

Emergency Response Guide (ERG) Number : 171

Other information : Only regulated by DOT if product exceeds Reportable Quantity under CERCLA. The reportable quantity can be found in Section 15 of this SDS.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### K KOOL-E 45% PINK

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

|  |         |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--|---------|

#### ethylene glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

|  |         |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--|---------|

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### National regulations

No additional information available

### 15.3. US State regulations

#### K KOOL-E 45% PINK()

|                            |  |
|----------------------------|--|
| State or local regulations | U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |
|----------------------------|--|

#### ethylene glycol (107-21-1)

|   |
|---|
| U.S. - Massachusetts - Right To Know List |
|---|

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### SECTION 16: Other information

Abbreviations and acronyms : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. European Agreement concerning the International Carriage of Dangerous Goods by Road. Acute Toxicity Estimate. Bioconcentration factor. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Derived Minimal Effect level. Derived-No Effect Level. Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Median effective concentration. International Agency for Research on Cancer. International Air Transport Association. International Maritime Dangerous Goods. Median lethal concentration. Median lethal dose. Lowest Observed Adverse Effect Level. No-Observed Adverse Effect Concentration. No-Observed Adverse Effect Level. No-Observed Effect Concentration. Organisation for Economic Co-operation and Development. Persistent Bioaccumulative Toxic. Predicted No-Effect Concentration. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulations concerning the International Carriage of Dangerous Goods by Rai. Safety Data Sheet. Sewage treatment plant. Median Tolerance Limit. Very Persistent and Very Bioaccumulative.

Other information : None.

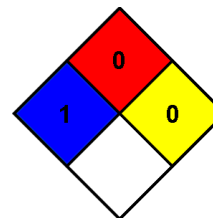
Full text of H-phrases:

|                     |                                  |
|---------------------|----------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| H302                | Harmful if swallowed             |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : o

o - Face shield and eye protection

SDS US (GHS HazCom 2012)

*Interstate Chemical Company, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.*