



INVENTED TO LAST

كيماويات السعودية

Saudi Chem

# HAZM 700

KOOL - MIX

## MATERIAL SAFETY DATA SHEET

### SECTION 1: Identification of the product

**Product name:** HAZM 700  
KOOL-MIX

**Use:** Anti-freeze/Coolant

**Product Code:** SC-706

**Manufacturer:** Saudi Chem Co.

**Address:** P.O. Box 70108  
Al Khobar 31952  
Kingdom of Saudi Arabia

**Telephone:** +966 13 812 1166 | +966 13 847 6467

**Fax:** +966 13 847 6985

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### SECTION 2: Composition/Information on ingredients

Monoethylene Glycol, Inhibitors, biocide & water

### SECTION 3: Hazards Identification

Harmful if swallowed

### SECTION 4: First Aid Measures

Never give fluids or induce vomiting if patient is unconscious.

#### INHALATION

Remove to fresh air if effect occurs. Consult a physician.

#### SKIN CONTACT

Wash off in flowing water or shower.

#### EYE CONTACT

Irrigate immediately with water for at least 15 mins.

#### INGESTION

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

#### Note to physician:

Early administration of ethanol may counter the toxic effects of ethylene glycol metabolic acidosis and renal damage.

### SECTION 5: Fire-fighting measures

#### Extinguishing media:

Water, alcohol foam, CO<sub>2</sub>, dry chemicals

#### Hazardous combustion products:

None expected under normal storage and handling conditions (i.e. ambient temperatures). However, ethylene glycol or solutions of ethylene glycol and water can form flammable vapours with air if heated sufficiently.

**Protection of fire fighters:** Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire-fighting helmet, helmet, cont. trousers, boots and gloves).

### SECTION 6: Accidental release measures

Avoid entry into sewers.

#### Large spills:

Dike and pump into suitable containers for disposal or salvage.

#### Small spills:

Soak up with absorbent materials and collect into drums.

### SECTION 7: Handling and storage

Avoid ingestion. Practice reasonable caution and personal cleanliness.

Avoid skin and eye contact.

Burn in an approved incinerator in accordance with the local requirements and salvage.

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**SECTION 8:**  
 Exposure controls/  
 personal protection
**Exposure Guidelines****Ethylene glycol:**

ACGIH TLV and OSHA Permissible Exposure Level is 50 ppm ceiling. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment:****Respiratory protection:**

Atmospheric levels should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Skin protection:**

Use impervious gloves when prolonged or frequently repeated contacts could occur. Selection of specific items such as gloves, boots, apron, or full body suit will depend upon operation

**Eye protection:**

Use safety glasses. If vapour causes eye discomfort, use a full-face respirator.

**SECTION 9:**  
 Physical and Chemical  
 properties

<b>Appearance/colour :</b>	Green-coloured liquid
<b>Odour:</b>	none
<b>Specific gravity:</b>	1.1200 – 1.1205
<b>Freezing point/range:</b>	<-10 OC
<b>Boiling range:</b>	195 – 202 OC
<b>Water solubility:</b>	miscible in all proportions
<b>Vapour pressure:</b>	< 1mbar
<b>Flash point :</b>	> 100 °C
<b>Explosion limits:</b>	under 3.2% vol/vol (ethylene glycol) Upper, Not applicable

**Chemical stability:** Stable under normal conditions

**Materials to avoid:** Oxidising agents

**Data for ethylene glycol:****- Ingestion**

Single dose oral toxicity is low. Excessive exposure may cause irritation to the central nervous system. The oral LD50 for rats is 6000-13000 mg/kg. No hazard.

**- Skin**

Repeated skin exposure to large quantities may result in absorption of harmful ingredients.

**- Eyes**

May cause slight transient (temporary) eye irritation. General injury is unlikely. Vapour or mist can cause eye irritation.

**- Inhalation**

Excessive exposure may cause irritation to upper respiratory tract.

**Data for ethylene glycol:****Mobility and Bio-accumulation potential**

Log Octanol/water partition coefficient (log Pow) is 1.36

Constant of Henry is 6.0E-08 atm m<sup>3</sup>/mol

**Degradation**

Biodegradation reached in Closed Bottle ten after 20 days: 88%

Respiration inhibition test is >1000 mg/L.

Material is not expected to cause long-term adverse effects in the aquatic environment (material is readily biodegradable and log Pow is less than 3).

**Aquatic toxicity**

Acute LC50 for rainbow trout is 18000-46000 mg/l. Material is non-toxic to aquatic invertebrates.

**A)** regain the material

**B)** Burn the Material.

**Burning:**

check burning conditions

**SECTION 13:**  
 Disposal considerations

Product is not classified for any mode of transportation.

**SECTION 14:**  
 Transport information

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied is made.

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