

**Safety Data Sheet**

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**1. IDENTIFICATION**

**Product Name:** TEC-KOOL Max Red Premix Antifreeze  
**Chemical Name/Synonyms:** TEC-KOOL Max Red ELC Heavy-Duty Long Life Premix Antifreeze  
**Company Name & Address:** Tec-Kool, 1320 1st Street, Rock Island, IL 61201  
**For More Information Call:** (309) 788-5631 (Monday-Friday 8:00-4:30)  
**In Case of Emergency Call:** (800) 424-9300 Chemtrec (24 Hours/7 Days)

**2. HAZARD(S) IDENTIFICATION**

**Hazard Classification:**

<b>Hazard Class :</b>	<b>Category:</b>	<b>Hazard Statement:</b>
Harmful if swallowed	4	H302
May cause damage to organs through prolonged or repeated exposure	2	H373
Causes eye irritation	2B	H320

See section 16 for full list of H statements.

**Signal Word:** **Warning**

**Hazard Statement(s):**

- H302 Harmful if swallowed.
- H373 May cause damage to organs through prolonged or repeated exposure
- H320 Causes eye irritation

**Pictogram(s):**



**Precautionary Statement(s):**

- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product.
- P301+P312 IF SWALLOWED: Call poison center/doctor if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P330 Rinse mouth.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of all contents/containers in accordance with local regulations.

**Description of Other Hazards:**

N/A

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance:**

Chemical Name	CAS#	% By Weight	GHS-US
N/A			

The exact concentrations of ingredients are considered proprietary and are being withheld as a Trade Secret in accordance with paragraph (i) of §1910.1200. In addition, there is batch-to-batch variability in ingredient concentrations.

**Mixture:**

Chemical Name	CAS#	% By Weight	GHS-US
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Ethylene Glycol	107-21-1	<=50	H302
Dye	N/A	<1	N/A
Denatonium Benzoate	3734-33-6	<1	H302,H315,H319,H335
Methyl-oxirane	9003-11-6	<3	N/A
Deionized Water	7732-18-5	Balance	N/A

## 4. FIRST-AID MEASURES

### 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:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice. If not breathing, give artificial respiration.

#### First-Aid Measures after Skin Contact:

Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention.

#### First-Aid after Eye Contact:

Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

**First-Aid after ingestion:**

Obtain emergency medical attention. Rinse mouth.  
DO NOT INDUCE VOMITING! If the person is fully  
conscience, make him/her drink two glasses of  
water. Never give an unconscience person anything  
to drink. Call a POISON CENTER or doctor if you feel  
unwell. If medical advice is delayed, and if the person  
has swallowed a moderate volumn of material, then  
give three to four ounces of hard liquor, such as whisky.  
For children, give proportionally less, according to weight.

**Most Important symptoms and effects, both acute and delayed:**

- Symptoms:** Causes damage to organs (kidneys).
- Symptoms after skin contact:** Causes skin irritation.
- Symptoms after eye contact:** Causes serious eye damage.
- Symptoms after ingestion:** Swallowing a small quantity of this material will  
result in serious health hazard.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Agents:** Water fog. Alcohol-resistant foam. Foam.  
Carbon dioxide. Dry chemical powder.  
Sand. Fine water spray.

**Unsuitable Extinguishing Agents:** Do not use a heavy water stream. May  
spread fire.

**Protective Equipment/Precautions  
for Firefighters:**

Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Full protective equipment including self-contained breathing apparatus should be used during a fire. During emergency conditions, over-exposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective  
Equipment:**

See section 8 for recommendations on the use of personal protective equipment.

**Measures for Environmental  
Protection:**

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

**Measures for Cleaning/Collecting:**

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

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling:**

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

**Conditions for Safe Storage,  
Including any Incompatibilities:**

Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -37°C. Keep away from strong acids, strong bases and oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters:**

Component	Exposure Limits	Basis	Entity
Ethylene Glycol	10 mg/m <sup>3</sup>	STEL	ACGIH
	N/A	STEL	OSHA

TWA: Time weighted average over 8 hours of work.

TLV: Threshold limit value over 8 hours of work.

REL: Recommended exposure limit.

PEL: Permissible exposure limit.

STEL: Short term exposure limit during x minutes.

IDLH: Immediately dangerous to life or health.

WEEL: Workplace environmental exposure levels.

CEIL: Ceiling.

**Exposure Controls:**

**Personal Protective Equipment:** Avoid all unnecessary exposure. Gloves. Safety glasses.

**Breathing Equipment:**

Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

**Protection of Hands:**

Wear protective gloves.

**Eye Protection:** Wear chemical safety glasses or goggles, and face shield.

**Additional Recommendations:** N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties:

Physical State:	Liquid
Color:	Red
Odor:	Mild
Odor Threshold:	No Data Available
pH 50% Water Solution:	8.0 - 9.5
Freezing Point:	-36°C (-34°F)
Boiling Point:	109°C (229°F)
Flash Point:	116°C (241°F)
Evaporation Rate:	Nil
Flammability:	No Data Available
Auto-Ignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Vapor Pressure:	<.1 mm Hg @ 20°C
Vapor Density:	2.1 (air=1)
Solubility:	Water: Complete
Specific Gravity:	1.045 min.
Viscosity, Kinematic:	No Data Available
Viscosity, Dynamic:	No Data Available

## 10. STABILITY AND REACTIVITY

**Reactivity:** No dangerous reactions known under normal conditions of use.

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<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Extremely high or low temperatures.
<b>Incompatible Materials:</b>	Keep away from strong acids, strong bases, and oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide. Carbon monoxide. Fume. Ethers. Aldehydes. Alcohols.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

	<u>Ethylene Glycol (107-21-1)</u>	<u>Denatonium Benzoate (3734-33-6)</u>
Skin:	LD50 Dermal - rabbit - 10,626 mg/kg	Skin: LD50 Dermal - rabbit - > 2000 mg/kg
Eyes:	Eyes - rabbit - Mild eye irritation - 24 h	Eyes: Not Available
Inhalation:	Not Available	Inhalation: Not Available
Ingestion:	LD50 Oral - rat - 4,700 mg/kg	Ingestion: LD50 Oral - rat - 584 mg/kg

### Potential Routes of Exposure/Potential Health Effects:

Skin:	Causes skin irritation	Skin:
Eye:	Causes serious eye damage	Eye:
Inhalation:	Not Classified	Inhalation:
Ingestion:	Swallowing a small quantity can result in serious health hazard. The lethal dose in humans is estimated to be 100 ml (3 oz)	Ingestion:
Carcinogenic Effects:		Carcinogenic Effects:
Mutagenic Effects:		Mutagenic Effects:
Reproductive Toxicity:		Reproductive Toxicity:



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Sensitization:

Sensitization:

Target Organs:

Target Organs:

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Aquatic Vertebrate:	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h
		LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h
		NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d
		NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h
	Aquatic Invertebrate:	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h
		NOEC - Daphnia - 24,000 mg/l - 48 h
		LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h
	Terrestrial:	Not Available
	Mobility:	Not Available
	Biodegradation:	Biodegradeable
Bioaccumulation:	Not Available	

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods:

Waste: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

Ecology-waste materials: Avoid release to the environment

## 14. TRANSPORT INFORMATION

### Department of Transportation (DOT):

Transport Document Description: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III  
UN-No.: UN3082  
Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.  
Hazard Class: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173. 140  
Hazard Labels: 9 - Class 9 (Miscellaneous dangerous n



Packing Group: III - Minor Danger  
Packaging Non-bulk: 203  
Packaging Bulk: 241  
Symbols: G - Identifies PSN requiring a technical name  
Packaging Exceptions: 155  
Quantity Limits: No Limit  
Vessel Stowage: A - May be stowed "on deck" or "under deck" on a vessel

**TDG:** Refer to current TDG Canada for further Canadian regulations

**Maritime Transport IMDG:** Not regulated by IMDG (in quantities under 5000 lbs in any one inner package)

**Air Transport ICAO-TI and IATA-DGR:** Not regulated by IATA (in quantities under 5000 lbs in any one inner package)

**Land Transport ADR/RID:** Non Bulk: not regulated by the U.S. DOT (in quantities under 5000 lbs in any one inner package)

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations:

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TSCA Inventory Status:	Ingredients listed on TSCA inventory
DSCL(EEC):	Ingredients listed on DSCL inventory
SARA 302:	Not listed
SARA 304:	Not listed
SARA 311:	Immediate (acute) health hazard
SARA 312:	Delayed (chronic) health hazard
SARA 313:	Ethylene glycol is subject to Form R reporting

### International Regulations:

Canada WHMIS:	Class D-2A: Poisonous and infectious material- Other effects- Very toxic Class D-1B: Poisonous and infectious material- Immediate and serious effects- Toxic
EU:	No Information available

### U.S. State Regulations:

California **WARNING:** This product contains, or may contain, substance(s) known to the State of California to cause cancer, developmental toxicity and/or reproductive toxicity:



**Substance:** Ethylene Glycol (107-21-1)

Carcinogens List: No  
Developmental Toxicity: Yes

Male Reproductive Toxicity: No

Female Reproductive Toxicity: No

Non-Significant Risk Level (NSRL): N/A

Please refer to Sections 2, 8, and 11 for health & exposure risks, for more information, see: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### Others:

Massachusetts	Right to know list:	Listed
New Jersey	Right to know hazardous substance list:	Listed
Pennsylvania	Right to know list - environmental hazard list:	Listed

## 16. OTHER INFORMATION

### NFPA

**Health Hazard:** 1-Exposure could cause irritation but only minor residual injury even if no treatment given.

**Fire Hazard:** 1-Must be preheated before ignition can occur.

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

**NS Symbol:** N/A



Full text of H statements:

### Physical Hazards:

Code:	Phrase:
H200:	Unstable explosive
H201:	Explosive; mass explosion hazard
H202:	Explosive; severe projection hazard
H203:	Explosive; fire, blast or projection hazard
H204:	Fire or projection hazard
H205:	May mass explode in fire
H206:	Fire, blast or projection hazard: increased risk of explosion if desensitizing agent is reduced
H207:	Fire or projection hazard: increased risk of explosion if desensitizing agent is reduced
H208:	Fire hazard: increased risk of explosion if desensitizing agent is reduced
H220:	Extremely flammable gas
H221:	Flammable gas
H222:	Extremely flammable aerosol
H223:	Flammable aerosol
H224:	Extremely flammable liquid and vapour
H225:	Highly flammable liquid and vapour
H226:	Flammable liquid and vapour
H227:	Combustible liquid
H228:	Flammable solid
H229:	Pressurized container: may burst if heated
H230:	May react explosively even in the absence of air
H231:	May react explosively even in the absence of air at elevated pressure and/or temperature
H232:	May ignite spontaneously if exposed to air
H240:	Heating may cause an explosion

### Health Hazards (Cont.):

Code:	Phrase:
H300:	Fatal if swallowed.
H301:	Toxic if swallowed
H302:	Harmful if swallowed
H303:	May be harmful if swallowed
H304:	May be fatal if swallowed and enters airways
H305:	May be harmful if swallowed and enters airways
H310:	Fatal in contact with skin
H311:	Toxic in contact with skin
H312:	Harmful in contact with skin
H313:	May be harmful in contact with skin
H314:	Causes severe skin burns and eye damage
H315:	Causes skin irritation
H316:	Causes mild skin irritation
H317:	May cause an allergic skin reaction
H318:	Causes serious eye damage
H319:	Causes serious eye irritation
H320:	Causes eye irritation
H330:	Fatal if inhaled
H331:	Toxic if inhaled
H332:	Harmful if inhaled
H333:	May be harmful if inhaled
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335:	May cause respiratory irritation
H336:	May cause drowsiness or dizziness
H340:	May cause genetic defects
H341:	Suspected of causing genetic defects

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H241: Heating may cause a fire or explosion  
H242: Heating may cause a fire  
H250: Catches fire spontaneously if exposed to air  
H251: Self-heating; may catch fire  
H252: Self-heating in large quantities; may catch fire  
H260: In contact with water releases flammable gases which may ignite spontaneously  
H261: In contact with water releases flammable gas  
H270: May cause or intensify fire; oxidizer  
H271: May cause fire or explosion; strong oxidizer  
H272: May intensify fire; oxidizer  
H280: Contains gas under pressure; may explode if heated  
H281: Contains refrigerated gas; may cause cryogenic burns or injury  
H290: May be corrosive to metals

H350: May cause cancer  
H351: Suspected of causing cancer  
H360: May damage fertility or the unborn child  
H361: Suspected of damaging fertility or the unborn child  
H361d: Suspected of damaging the unborn child  
H361e: May damage the unborn child  
H361f: Suspected of damaging fertility  
H361g: may damage fertility  
H362: May cause harm to breast-fed children  
H370: Causes damage to organs  
H371: May cause damage to organs  
H372: Causes damage to organs through prolonged or repeated exposure  
H373: May cause damage to organs through prolonged or repeated exposure

### **Environmental Hazards:**

**Code:**                   **Phrase:**

H400: Very toxic to aquatic life  
H401: Toxic to aquatic life  
H402: Harmful to aquatic life  
H410: Very toxic to aquatic life with long-lasting effects  
H411: Toxic to aquatic life with long-lasting effects  
H412: Harmful to aquatic life with long-lasting effects  
H413: May cause long-lasting harmful effects to aquatic life  
H420: Harms public health and the environment by destroying ozone in the upper atmosphere  
H433: Harmful to terrestrial vertebrates

### **Health Hazards:**

**Code:**                   **Phrase:**

H313+H333: May be harmful in contact with skin or if inhaled  
H303+H313+H333: May be harmful if swallowed, in contact with skin or if inhaled  
H315+H320: Causes skin and eye irritation

H300+H310: Fatal if swallowed or in contact with skin  
H300+H330: Fatal if swallowed or if inhaled  
H310+H330: Fatal in contact with skin or if inhaled  
H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled  
H301+H311: Toxic if swallowed or in contact with skin  
H301+H331: Toxic if swallowed or if inhaled  
H311+H331: Toxic in contact with skin or if inhaled  
H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled  
H302+H312: Harmful if swallowed or in contact with skin  
H302+H332: Harmful if swallowed or if inhaled  
H312+H332: Harmful in contact with skin or if inhaled  
H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled  
H303+H313: May be harmful if swallowed or in contact with skin  
H303+H333: May be harmful if swallowed or if inhaled

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