SDS Number: 1031012260CONC

Issue Date: 11/20/2017 Revised Date: 4/1/2019

Version No: 2



1. IDENTIFICATION

Product Name: TEC-KOOL Max Yellow Concentrate Antifreeze

Chemical Name/Synonyms: TEC-KOOL Max Yellow ELC Heavy-Duty Long Life Concentrate 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:

Hazard Class:

Category: Hazard Statement:

Harmful if swallowed

Causes eye irritation

2B

H320

May cause damage to organs through prolonged or repeated exposure

2 H373

See section 16 for full list of H statements.

Signal Word: Warning

Hazard Statement(s):

H302 Harmful if swallowed.H320 Causes eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure

Pictogram(s):



Precautionary Statement(s):

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P280 Wear personal protective equipment as required

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

Ethylene Glycol	107-21-1	90-97	H302
Dye	N/A	<1	N/A
Denatonium Benzoate	3734-33-6	<1	H302,H315,H319,H335
Methyl-oxirane	9003-11-6	<6	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 irratation 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 Lin	nits Basis	Entity	
Ethylene Glycol	10 mg/m³	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: Yellow
Odor: Mild

Odor Threshold: No Data Available

pH 50% Water Solution: 8.0 - 9.5

Freezing Point: -12.9°C (8.8°F)
Boiling Point: 162°C (325°F)
Flash Point: 116°C (241°F)

Evaporation Rate: Nil

Vapor Density: 2.1 (air=1)

Solubility: Water: Complete

Specific Gravity: 1.12

Viscosity, Kinematic: No Data Available
Viscosity, Dynamic: No Data Available

10. STABILITY AND REACTIVITY

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

Chemical Stability: Stable

Conditions to Avoid: Extremely high or low temperatures.

Incompatible Materials: Keep away from strong acids, strong bases, and oxidizing agents.

Hazardous Decomposition

Carbon dioxide. Carbon monoxide. Fume. Ethers. Aldehydes. Alcohols.

Products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ethylene Glycol (107-21-1) Denatonium Benzoate (3734-33-6)

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 quanity can result in serious health hazard. Ingestion:

The lethal dose in humans is estimated to be 100 ml (3 oz)

Carcinogenic Carcinogenic

Effects: Effects:

Mutagenic Mutagenic

Effects: Effects:

Reproductive Reproductive

Toxicity: Toxicity:

Sensitization: Sensitization:

Target Organs: Target Organs:

12. ECOLOGICAL INFORMATION

Ecotoxicity: 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

Biodegration: Biodegradeable

Bioaccumulation: Not Available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Waste: Dispose of contents/container, in a safe mannor, 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:

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:

WARNING: This product contains, or may contain, substance(s) known California

Prop 65: 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,

www.P65Warnings.ca.gov see:

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

Physical Hazards:

Full text of H statements:



Health Hazards (Cont.):

H333: May be harmful if inhaled

or breathing difficulties if inhaled

H340: May cause genetic defects

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H334: May cause allergy or asthma symptoms

H228: Flammable solid

H229: Pressurized container: may burst if heated

H230: May react explosively even in the absence of air

elevated pressure and/or temperature

H232: May ignite spontaneously if exposed to air

H231: May react explosively even in the absence of air at

H240: Heating may cause an explosion H341: Suspected of causing genetic defects H241: Heating may cause a fire or explosion H350: May cause cancer H351: Suspected of causing cancer H242: Heating may cause a fire H360: May damage fertility or the unborn child H250: Catches fire spontaneously if exposed to air H251: Self-heating; may catch fire H361: Suspected of damaging fertility or the H252: Self-heating in large quantities; may catch fire unborn child H260: In contact with water releases flammable H361d: Suspected of damaging the unborn child gases which may ignite spontaneously H361e: May damage the unborn child H261: In contact with water releases flammable gas H361f: Suspected of damaging fertility H361g: may damage fertility H270: May cause or intensify fire; oxidizer H271: May cause fire or explosion; strong oxidizer H362: May cause harm to breast-fed children H272: May intensify fire; oxidizer H370: Causes damage to organs H280: Contains gas under pressure; may explode if heated H371: May cause damage to organs H281: Contains refrigerated gas; may cause cryogenic H372: Causes damage to organs through burns or injury prolonged or repeated exposure H290: May be corrosive to metals H373: May cause damage to organs through **Environmental Hazards:** prolonged or repeated exposure Phrase: H300+H310: Fatal if swallowed or in contact with skin H400: Very toxic to aquatic life H300+H330: Fatal if swallowed or if inhaled H401: Toxic to aquatic life H310+H330: Fatal in contact with skin or if inhaled H402: Harmful to aquatic life H300+H310+H330: Fatal if swallowed, in H410: Very toxic to aquatic life with long-lasting effects contact with skin or if inhaled H411: Toxic to aquatic life with long-lasting effects H301+H311: Toxic if swallowed or in contact with skin H412: Harmful to aquatic life with long-lasting effects H301+H331: Toxic if swallowed or if inhaled H311+H331: Toxic in contact with skin or if inhaled H413: May cause long-lasting harmful effects to H301+H311+H331: Toxic if swallowed, in contact H420: Harms public health and the environment with skin or if inhaled by destroying ozone in the upper atmosphere H302+H312: Harmful if swallowed or in contact with skin H433: Harmful to terrestrial vertebrates H302+H332: Harmful if swallowed or if inhaled **Health Hazards:** H312+H332: Harmful in contact with skin or if inhaled Phrase: H302+H312+H332: Harmful if swallowed, in contact H313+H333: May be harmful in contact with skin with skin or if inhaled H303+H313: May be harmful if swallowed or H303+H313+H333: May be harmful if swallowed, in contact with skin in contact with skin or if inhaled H303+H333: May be harmful if swallowed or if inhaled

Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. Because safety

Code:

aquatic life

Code:

or if inhaled

H315+H320: Causes skin and eye irritation

handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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