



**TEC-2000 LTD.**

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## EC - SAFETY DATA SHEET

### **TEC-2000** FUEL SYSTEM CLEANER-TANK ADDITIVE

#### 1. IDENTIFICATION OF PREPARATION AND COMPANY

**CHEMICAL NAME:** TEC-2000 FUEL SYSTEM CLEANER-TANK ADDITIVE

**SUPPLIERS:** TEC-2000 LTD., P.O. Box 285, Hitchin, Herts., SG4 9WQ, U.K.

**EMERGENCY TELEPHONES:** **U.K.** 01462-433 660 - **07831 105386 (24hrs)**

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	CONTENTS	HEALTH (class)	RISK (R. No.)
XYLENE	1330-20-7	<20-30 %	Xn	10,20/21,38
PROPANOL-2-OL	67-63-0	15-25 %		11
ACETONE	67-64-1	15-25 %		11
<b>BALANCE OF COMPOSITION IS CONFIDENTIAL BUSINESS INFORMATION AND CONSISTS OF LOW HAZARD CHEMICALS</b>	VARIOUS	20-50 %		10



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Registered in England No. 460 8392

# TEC-2000 FUEL SYSTEM CLEANER-TANK ADDITIVE

## 3. HAZARDS IDENTIFICATION

Harmful by inhalation and in contact with skin.  
Irritating to skin.  
Highly flammable.

## 4. FIRST AID MEASURES

<b>GENERAL:</b>	Consult a physician for specific advice.
<b>EYES:</b>	Promptly wash eyes with lots of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.
<b>SKIN:</b>	Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention immediately if symptoms occur after washing.
<b>INHALATION:</b>	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and rest. Get prompt medical attention.
<b>INGESTION:</b>	<b>NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS !</b> Get medical attention immediately ! <b>DO NOT induce vomiting.</b> Get medical attention immediately.

## 5. FIRE FIGHTING MEASURES

<b>EXTINGUISHING MEDIA:</b>	Foam, carbon dioxide (CO <sub>2</sub> ), dry chemicals, sand, dolomite, etc.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Keeps runoff water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water from the side until well after the fire is out. Move container from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles if possible. If not, withdraw and let fire burn out. If water pollution occurs, notify appropriate authorities.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	May explode in a fire. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Toxic gases/vapours/fumes of carbon monoxide (CO) carbon dioxide (CO <sub>2</sub> ).

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## 6. ACCIDENTAL RELEASE MEASURES

### SPILL CLEANUP METHODS:

Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted. Absorb small quantities with paper towels and evaporate in a safe place (e.g. fume hood). Allow sufficient time for vapours to completely clear the hood ducts, then burn the paper in a location away from combustible materials. Let evaporate. Keep out of confined spaces because of explosion risk. Dike far ahead of larger spills for later disposal. Provide ventilation and confine spill. Do not allow runoff to sewer. Cleanup personnel should use respiratory and/or liquid contact protection.

## 7. HANDLING AND STORAGE

### USAGE PRECAUTIONS:

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level and in this situation, do not use contact lenses.

### STORAGE PRECAUTIONS:

Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks. For large quantities, outside or detached storage preferred. Conform to local regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No.	STD	LT EXP (8 hrs)	ST EXP (10 min)
XYLENE	1330-20-7	OES	100ppm(Sk)	150ppm(Sk)
PROPANOL-2-OL	67-63-0	OES	400ppm	500ppm
ACETONE	67-64-1	OES	750ppm	1500ppm

### INGREDIENT COMMENTS:

The balance of the ingredients is made up of low hazard chemicals.

### VENTILATION:

Provide adequate general and local exhaust ventilation.

### RESPIRATORS:

In the event of expected prolonged exposure to concentrated vapours, CCROV, CCR with organic vapour cartridge. SA, Supplied-air respirator. SCBA, Self-contained breathing apparatus.

### PROTECTIVE GLOVES:

Use protective gloves made of polyvinyl alcohol (PVA), viton rubber (fluor rubber).

### EYE PROTECTION:

Wear chemical safety goggles where eye exposure is reasonably probable. Contact lenses should not be worn when working with this preparation.

### OTHER PROTECTION:

Use engineering controls to reduce air contamination to permissible level. Provide eye wash, quick drench. Wear appropriate clothing to prevent any possibility of skin contact.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid, mobile.
COLOUR:	Light Red.
SPECIFIC GRAVITY (Water = 1):	~0.820 @ 20° C
VISCOSITY:	N/A
VAPOUR PRESSURE:	
MELTING POINT:	
BOILING POINT:	
FLASH POINT (°C) :	12°
FLASH POINT METHOD:	Sh CC (Setaflash closed cup)

## 10. STABILITY AND REACTIVITY

STABILITY:	Avoid heat, sparks, flames, air and oxidisers.
MATERIALS TO AVOID:	Strong oxidising agents
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic gases/vapours/fumes of carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

TOXIC DOSE1-LD50:	N/K
TOXIC DOSE2-LD50:	N/K
TOXIC CONC.-LD50:	N/K
HEALTH WARNINGS:	This preparation may cause skin/eye irritation. Irritant of eyes and mucous membranes. Toxic through skin absorption (percutaneous). CNS depressant. Anaesthetic in high concentrations.
MEDICAL SYMPTOMS:	Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation, Severe skin irritation, Nausea, vomiting, Unconsciousness, possibly death, Central nervous system depression, Drowsiness, Dizziness, disorientation, vertigo, Behavioral changes, Hypotension (low blood pressure).
ACUTE AND CHRONIC HEALTH HAZARDS:	Repeated exposure may cause chronic eye irritation, may cause chemical eye burns, acute eczematous dermatitis, contact type erythema, edma, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated preparation may cause severe internal injury, Unconsciousness, death.

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## 12. ECOLOGICAL INFORMATION

LC50 96 HRS FISH (mg/Kg) :	N/K
EC50 48 HRS DAPHINA (mg/l) :	N/K
IC50 72 ALGAE (mg/l) :	N/K
PARTICION COEFF. (Water/Octanol) :	N/K

## 13. DISPOSAL CONSIDERATIONS

<b>DISPOSAL METHODS:</b>	Incinerate in suitable combustion chamber. Dilute with organic solvent and incinerate using effluent gas cleaner. Make sure containers are empty before discarding (explosion risk). Collect on absorbent material, place in cardboard kegs and incinerate. Confirm disposal procedures with environmental engineer and local regulations.
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## 14. TRANSPORT INFORMATION.

<b>ROAD:</b>	
UN No:	1993
HAZCHEM CODE:	3y
ADR CLASS No:	3
ADR ITEM No:	31c
ADR LABEL No:	3
LABEL FOR CONVEYANCE:	



<b>AIR:</b>	
UN AIR:	
AIR TRANSPORT CLASS No:	3
AIR PACKAGING GROUP:	II
<b>SEA:</b>	
UN SEA:	
SEA TRANSPORT CLASS No:	3.2
SEA PACKAGING GROUP:	3

**RAIL:**

# TEC-2000 FUEL SYSTEM CLEANER-TANK ADDITIVE

## 15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



RISK PHRASES:

R-11 Highly flammable.  
R-38 Irritating to skin  
R-20/21 Harmful by inhalation and in contact with skin.  
R-65 May cause lung damage if swallowed.

SAFETY PHRASES:

S-2 Keep out of reach of children.  
S-16 Keep away from sources of ignition - NO SMOKING.  
S-23 Do not breathe gas/fumes/vapours/spray.  
S-25 Avoid contact with eyes.  
S-33 Take precautionary measures against static discharges.  
S-43 In case of fire, use foam, carbon dioxide (CO<sub>2</sub>), dry chemicals, sand, dolomite. **NEVER USE WATER.**  
S-62 If swallowed, do not induce vomiting, seek medical advice immediately and show this container.

UK REGULATORY REFERENCES:

Classification, Packaging and Labeling Regulations 1984, Highly Flammable Liquid Regulations 1972, Health and Safety at Work Act 1974, Control of Substances Hazardous to Health Regulations, 1988.

## 16. OTHER INFORMATION

INFORMATION SOURCES:

Dangerous Properties of Industrial Chemicals, 6. edition. N. Sax, 1984  
OSHA Air Contaminants - Permissible Exposure Limits (Title 29)  
Hazardous Materials, Emergency Response Guidebook, DOT-P 5800.3, 1984. NFPA49. Hazardous Chemical Data, 1975.  
NIOSH/OSHA Pocket Guide to Chemical Hazards, 1978.  
Threshold Limit Values and Biological Exposure Indices for 1985-1986.  
Chemical Safety Data guide. Bureau of National Affairs, 1985

ISSUED BY:

Mr. M. L. F. KNOWLES

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