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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

TEC-2000 FUEL INJECTOR CLEANER

1. IDENTIFICATION OF PREPARATION AND COMPANY

Chemical Name: TEC-2000 FUEL INJECTOR CLEANER

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

Emergency Telephones: U.K. 0044 (Ø) 1462-433 660 - 0044 (Ø) 7831 105386 (24hrs)

2. HAZARDS IDENTIFICATION

Main Hazards: Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

Other Hazards: In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	EINECS	CONTENTS	RISK (R. No.)
Kerosine (Petroleum), Straight Run	8008-20-6	232-366-4	30-50%	[-]R10; [Xn] R65
Acetone	67-64-1	200-662-2	10-30%	[F]R11; [Xi] R36; [-]R66; [-] R67
Propanol-2-OL	67-63-0	200-661-7	10-30 %	[F] R11; [Xi] R36; [-] R67
Xylene	1330-20-7	215-535-7	10-30 %	[-] R10; [Xn] R20/21; [Xi] R38
Fatty Alcohol Ethoxylate 5			1-5%	[Xn] R22; [Xi] R41
Ethylbenzene	100-41-4	202-849-4	1-5%	[F] R11; [Xn] R20

Contains: This preparation contains a component(s) which is a complex mixture and has been assigned Note H in ASL. Components not listed in Annex I must be self-classified.

Registered office:
Building 15, Gateway 1000,
Stevenage, Hertfordshire, SG1 2FP
Registered in England No. 460 8392

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4. FIRST AID MEASURES (SYMPTOMS)

Skin Contact:	There may be irritation and redness at the site of contact. Frequent or prolonged contact may de-fat the skin and cause dermatitis.
Eye Contact:	There may be irritation and pain.
Ingestion:	There may be irritation of the throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.
Inhalation:	High concentrations are irritating to the respiratory tract. Vapour may cause drowsiness, nausea, dizziness and loss of consciousness.

4. FIRST AID MEASURES (ACTION)

Skin Contact:	Wash immediately with plenty of soap and water. Remove contaminated clothing, including shoes, and launder before re-use. In cases of large areas of exposure or contact or persistent irritation, get prompt medical attention.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.
Ingestion:	Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. If symptoms occur, get prompt medical attention.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Administer artificial respiration if breathing has stopped. Keep at rest. In case of persistent symptoms, consult doctor.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Alcohol resistant foam. Carbon dioxide. Water fog. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. DO NOT USE water jet. Use water spray to cool containers.
Exposure Hazards:	Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
Protection Of Fire-Fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. In cases of large spillage, evacuate non-essential staff, or those not equipped with individual protection apparatus. Turn leaking containers leak-side up to prevent the escape of liquid. Avoid contact with skin and eyes. Avoid inhalation of vapours.
Environmental Precautions:	Prevent liquid from entering sewers, watercourses or low areas. Do not release to the environment. Contain the spillage using bunding. In the event of release to watercourse, notify relevant authorities in accordance with all applicable regulations.
Clean-Up Procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.
Small Spillage:	Absorb into paper towel or similar. Wear protective gloves. Do not inhale vapours. Dispose of as per local regulations.

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7. HANDLING AND STORAGE

Handling Requirements:	Ensure there is sufficient ventilation of the area. LEV may be required. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Use non-sparking tools. Avoid contact with skin and eyes.
Storage Conditions:	Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from sources of ignition. Ensure lighting and electrical equipment are not a source of ignition. Prevent the build up of electrostatic charge in the immediate area. DO NOT store near an open flame, sources of heat or sources of ignition.
Suitable Packaging:	Must only be kept in original packaging. Mild steel. Stainless steel. DO NOT USE Natural / butyl rubber. Styrene / butadiene rubber. Polystyrene. EPDM. Aluminium. Compatibility with plastic materials can vary; we therefore recommend that compatibility be tested prior to use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	WEL (8hr TWA)	WEL (15 min STEL)
Kerosine (Petroleum), Straight Run	600ppm	
Acetone	1,210 mg/m ³	3,620 mg/m ³
Propanol-2-OL	999 mg/m ³	1,250 mg/m ³
Xylene	220 mg/m ³	441 mg/m ³
Ethylbenzene	441 mg/m ³	552 mg/m ³

Engineering Measures:	Ensure there is sufficient ventilation of the area. Provide mechanical ventilation of confined spaces. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory Protection:	Suitable filter material depends on the amount and type of other chemicals being handled in the workplace. If required, Half face filtering respirator (EN140). Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.
Hand Protection:	Butyl gloves. Nitrile gloves. Gloves should be replaced immediately if signs of degradation are observed.
Eye Protection:	Safety glasses with side-shields. Ensure eye bath is to hand.
Skin Protection:	Use work-clothes which protect arms, legs and body.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Red
Odour:	Characteristic odour
Evaporation Rate:	Moderate
Solubility In Water:	Partial
Boiling Point/Range°C:	56 (IBP)
Melting Point/Range°C:	< 0
Flammability Limits %:	lower: 0.8 (component) upper: 13.3 (component)
Flash Point°C:	< 0
Viscosity:	< 7 cSt @ 40°C
Autoflammability°C:	> 230
Vapour Pressure:	not determined
Relative Density:	0.815 g/mL @ 15°C

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10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions To Avoid:	Heat. Sources of ignition. Flames. Static discharges.
Materials To Avoid:	Strong oxidising agents. Strong acids. Aldehydes. Caustics. Chlorinated compounds. Alkanolamines.
Haz. Decomp. Products:	Does not decompose at ambient temperatures. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

INGREDIENT NAME	IVN RAT	ORL MUS	ORL RAT	
Acetone	LD50 5500 mg/kg	LD50 3 gm/kg	LD50 5800 mg/kg	
Poropan-2-OL	LD50 1088 mg/kg	LD50 3600 mg/kg	LD50 5045 mg/kg	SCU MUS LDLO 6 gm/kg
Xylene		LD50 2119 mg/kg	LD50 4300 mg/kg	RAT MUS LD50 1700 mg/kg
Ethylbenzene			LD50 3500 mg/kg	IPR MUS LD50 2624 µl/kg

Chronic Toxicity: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema. Frequent or prolonged skin contact may irritate and cause dermatitis. ETHYLBENZENE. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals. However, there is inadequate evidence of cancer in humans.

Routes Of Exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous Ingredients: FATTY ALCOHOL ETHOXYLATE 5
ALGAE 96H EC50 1 - 10 mg/l
DAPHNIA 48H EC50 1 - 10 mg/l
FISH RAINBOW TROUT 96H LC50 5.6 mg/l

Mobility: A component(s) of this preparation is (are) Soluble in water.

Persistence And Degradability: Expected to be Biodegradable. (Component data.)

Bioaccumulative Potential: No data available.

Other Adverse Effects: Not expected to be Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal Operations: Ensure compliance with local regulations. This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Disposal Of Packaging: Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Ensure compliance with local regulations. DO NOT pressurise, cut, heat or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning. NB: According to European Waste Catalogue, Waste Codes are not product specific, but application specific. The user must be aware that the conditions of use may affect the waste classification after use. Please refer to the List of Wastes (England) Regulations 2005 (as amended) for waste nomenclature.

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14. TRANSPORT INFORMATION.

ADR / RID

UN No: 1993
ADR Class No: 3
Packing Group: II
Classification Code: F1
Shipping Name: Flammable Liquid, N.O.S. (Propan-2-OL; Acetone)
Hazard ID No.: 33
Labelling: 3



IMDG / IMO

UN No: 1993
Class: 3
Packing Group: II
EMS: F-E,S-E*
Marine Pollutant: NO
Labelling: 3

IATA / ICAO

UN No: 1993
Class: 3
Packing Group: II
Packing Instructions: 305(P&CA); 307(CAO)
Labelling: 3

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15. REGULATORY INFORMATION

Label For Supply:

**Highly Flammable
Harmful**

F

Xn



Risk Phrases:

R20/21: Harmful by inhalation and in contact with skin.
R36: Irritating to eyes.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

Safety Phrases:

S2: Keep out of reach of children
S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe fumes / vapour / spray.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37: Wear suitable protective clothing and gloves.
S60: This material and its container must be disposed of as hazardous waste.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Haz. Ingredients (Label):

XYLENE; PROPAN-2-OL; ACETONE; Kerosine (PETROLEUM), STRAIGHT RUN

Note:

GOVERNING DIRECTIVE: Dangerous Preparations Directive 1999/45/EC, as modified.
This classification results from the use of the rules as prescribed by the EU Preparation Directive.

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16. OTHER INFORMATION

Other Information:	This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.
Sources Of Information:	Workplace Exposure Limits EH40/2005. The Dictionary of Substances and their Effects (DOSE) (2nd ed.). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP4). Approved Classification and Labelling Guide (5th ed.). The compilation of safety data sheets ACoP (3rd ed.). Approved Supply List (8th ed.). Approved Carriage List (3rd ed.). European Council Directive 1999/13/EC ("Solvents Emissions Directive"). The List of Wastes (England) Regulations 2005, as amended. Supplier information
Revision Summary: (New Issue):	Risk phrases used in section 3 with reference to raw ingredients: R10: Flammable. R65: Harmful: may cause lung damage if swallowed. R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness. R20/21: Harmful by inhalation and in contact with skin. R38: Irritating to skin. R22: Harmful if swallowed. R41: Risk of serious damage to eyes. R20: Harmful by inhalation.
Legal Disclaimer:	The information provided relates only to the product or material specified and does not apply if used in combination with other materials. The data sheet gives information to the best of TEC-2000's knowledge and awareness as of its issue date. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied that the information provided is suitable and complete enough for this material's particular use.
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