

**TEC-2000 LTD.**P. O. BOX 285, Hitchin,
HERTS., SG4 9WQ, U.K.info@tec-2000.co.uk

PH: 01462-433 660

FAX: 01462-433 606

MOB: 07831-105 386

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

TEC-2000 DIESEL INJECTOR CLEANER

1. IDENTIFICATION OF PREPARATION AND COMPANY

CHEMICAL NAME: TEC-2000 DIESEL 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. Irritating to eyes and skin. Risk of explosion if heated under confinement. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk to harm to the unborn child. Harmful: may cause lung cancer if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Other Hazards: In use, may form flammable / explosive vapour-air mixture. Thermal decomposition will give rise to flammable and toxic products. See Section 10. DO NOT heat above 100°C. Heating may cause an explosion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	EINECS No.	CONTENTS	HEALTH (class)	RISK. (R No.)
Toluene	108-88-3	203-625-9	10-30 %	Xn , Xi, F	11-38-48/20-63-65-67
Propan-2-OL	67-63-0	200-661-7	10-30 %	Xi, F	11-36-67
Acetone	67-64-1	200-662-2	10-30%	Xi, F	11-36-66-67
Kerosine (Petroleum), Hydrodesulphurised 2	64742-81-0	265-184-9	30-50%	Xi, Xn, N	38-65-51/53
Alkyl Nitrate	n/a	248-363-6	1-5%	Xn	44-20/21
Solvent Naphtha (Petroleum), Heavy Aromatic 2	n/a	265-198-5	<1%	Xn, N	51/53-65-66-67

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:	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 grossly contaminated clothing, including shoes, and launder before re-use. 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. CO ₂ , extinguishing powder. 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. Nitrogen oxides.
PROTECTION OF FIRE-FIGHTERS:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS:** Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. 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 PRECATIONS:** 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.

7. HANDLING AND STORAGE

- HANDLING REQUIREMENTS:** Ensure there is sufficient ventilation of the area. LEV may be required. 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:** Stainless steel. Mild steel. Must only be kept in original packaging. 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.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	WEL (8 hrs TWA)	WEL (15 min STEL)
TOLUENE	191mg/m ³	574mg/m ³
PROPANOL-2-OL	999mg/m ³	1,250mg/m ³
ACETONE	1,210mg/m ³	3,620mg/m ³
KEROSINE (PETROLEUM), HYDRODESULPHURISED	800mg/m ³	n/a
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC 2	100mg/m ³ (17 ppm)	n/a

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 9EN140). Gas / vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.

HAND PROTECTION: Butyl gloves. Rubber 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:	Orange.
ODOUR:	Characteristic odour.
EVAPORATION RATE:	Fast.
SOLUBILITY / MISCIBILITY	
WITH WATER:	Partial.
BOILING POINT / RANGE (°C):	56 (IBP).
MELTING POINT / RANGE (°C):	<0.
FLAMMABILITY LIMITS %:	LOWER: 0.7 (Component)
FLAMMABILITY LIMITS %:	UPPER: 13.3 (Component)
FLASH POINT (°C) :	<0
VISCOSITY:	<7 cSt @ 40°C.
AUTOFLAMMABILTIY (°C):	<240
VAPOUR PRESSURE:	not determined.
RELATIVE DENSITY:	0.817 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. Inorganic acids.
HAZ. DECOMP. PRODUCTS:	Does not decompose at ambient temperatures. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

INGREDIENT NAME	IVN RAT	ORL MUS	ORL RAT	SCU MUS
Toluene	LD 50 1960 mg/kg	LD50 2 mg/kg	LD 50 6900 mg/kg	n/a
Propan-2-OL	LD 50 1088 mg/kg	LD50 3600 mg/kg	LD 50 5045 mg/kg	LDLO 6 gm/kg
Acetone	LD 50 5500 mg/kg	LD50 3 mg/kg	LD 50 5800 mg/kg	n/a

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. TOLUENE has been shown to affect liver, kidney and central nervous system function through prolonged exposure, and may cause slight foetotoxicity at doses which are maternally toxic. ORGANIC NITRATES: Overexposure to organic nitrates by inhalation of vapour or skin contact may cause headache, dizziness, nausea and decreased blood pressure.
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ROUTES OF EXPOSURE:	Refer to section 4 of SDS for routes of exposure and corresponding symptoms.
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12. ECOLOGICAL INFORMATION

HAZARDOUS INGREDIENTS:	TOLUENE DAPHNIA 48H EC50 19.6 mg/l FISH BLUEGILLS 96H LC50 25mg/l
MOBILITY:	A component (s) of this preparation is (are) Soluble in water.
PERSISTANCE AND DEGRADABILITY:	Expected to be Biodegradable. (Component data).
BIOACCUMULATIVE POTENTIAL:	No data available.
OTHER ADVERSE EFFECTS:	Expected to be Toxic to aquatic organisms.

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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.
- 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.

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. (PROPANOL-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



RISK PHRASES:

R-11 Highly Flammable.
R-36/38 Irritating to the eyes and skin.
R-44 Risk of explosion if heated under confinement.
R-48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R-51/53 Toxic to Aquatic Organisms, may cause long-term adverse effects in the aquatic environment.
R-63 Possible risk of harm to the unborn child.
R-65 Harmful: may cause lung damage if swallowed.
R-66 Repeated exposure may cause skin dryness or cracking.
R-67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES:

S- 9 Keep container in a well-ventilated place.
S-23 Do not breathe vapour / fumes / mist.
R-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-33 Take precautionary measures against static discharges.
S-36/37 Wear suitable protective clothing and gloves.
S-60 This material and its container must be disposed of as hazardous waste.
S-61 Avoid release to the environment. Refer to special instructions / safety data sheets.
S-62 If swallowed, **do not induce vomiting**: seek medical advice immediately and show the container or label.

HAZ. INGREDIENTS (LABEL):

TOLUENE; PROPAN-2-OL; ACETONE; Kerosine (PETROLEUM), HYDRODESULPHURISED 2

Note:

GOVERNING DIRECTIVE:

Dangerous Preparations Directive 1999/45/EC, as modified.

This classification results from the use of the rules as prescribed by 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) (2 nd ed.). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3). Approved Classification and Labelling Guide (5 th ed.). The compilation of safety data sheets AcoP (3 rd ed.). Approved Supply List (8 th ed.). Approved Carriage List (3 rd 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 s.3: R11: Highly flammable. R38: Irritating to skin. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed. R67: Vapours may cause drowsiness and dizziness. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R44: Risk of explosion if heated under confinement. R20/21: Harmful by inhalation and in contact with skin.
Legal Disclaimer:	The information provided relates only to the product or material specified and does not apply in 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.
Issued By:	M. L. F. KNOWLES.
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