Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) as amended

INDUCTION CLEANER (Diesel & Petrol)

TEC-2000 LTD.
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier TEC2000 INDUCTION CLEANER
Substance / mixture mixture
UFI H000-A0PG-V008-2157

1.2 Relevant identified uses of the substance or mixture and uses advised against

Mixture's intended use
Aerosol Cleaning induction tract in Diesel and Petrol internal Combustion Engines.

Main intended use
PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

The use descriptors
PC 35 Washing and cleaning products

Mixture uses advised against
The product should not be used in ways other then those referred in Section 1.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	TEC-2000 LIMITED
Address	PO Box 285, Hitchin, Hertfordshire, SG4 9WQ, United Kingdom
VAT Reg No	GB111112414
Phone	+44 (0) 1462 433 660
E-mail	mike@tec-2000.co.uk
Web address	www.tec-2000.co.uk

Competent person responsible for the safety data sheet

Name	TEC-2000 LIMITED
E-mail	mike@tec-2000.co.uk

1.4 Emergency telephone number
0044 (Ø) 7831 105386 (24hrs)
NHS Direct: 111
UK-National Poisons Information Service (NPIS): 0344 892 0111 (healthcare professionals only).
Ireland - National Poisons Information Centre (NPIC): (01) 809 2566 (healthcare professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) 1272/2008
The mixture is classified as dangerous.

The mixture is classified as dangerous.

Aerosol 1,	H222, H229
Asp. Tox. 1,	H304
Skin Irrit. 2,	H315
Eye Dam. 1	H318
STOT SE 3	H336,H335
Aquatic Chronic 2	H411

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects
Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment
May cause drowsiness or dizziness. May cause respiratory irritation. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

Registered office:
Second Floor, 2 Walsworth Road,
Hitchin, Hertfordshire, SG4 9SP
Registered in England No. 460 8392

2.2 Label elements

Hazard pictograms:

Signal word: Danger

Hazardous substances Petroleum Light aromatic C9
acetone
propan-2-ol
poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-

Hazard statements:

H222-	Extremely flammable aerosol
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P391	Collect spillage.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Supplemental information

>=30 % aliphatic hydrocarbons, 15-<30 % aromatic hydrocarbons, <5 % non-ionic surfactants

2.3 Other hazards:

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35- XXXX	Petroleum Light aromatic C9	32,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411	
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49- XXXX	acetone	23,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	2
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25- XXXX	propan-2-ol	22,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32- XXXX	xylene	17,5	Flam. Liq. 3, H226 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315	1, 2
CAS: 24938-91-8	poly(oxy-1,2-ethanediyl), α-tridecyl-ω- hydroxy-	4	Acute Tox. 4, H302 Eye Dam. 1, H318	

Notes

1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

2 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

4.2 Most important symptoms and effects, both acute and delayed

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3 Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

6.2 Environmental precautions:

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3 Methods and material for containment and cleaning up

Ventilate the room. Use neutralising agent. Absorb spillage to prevent material damage. Dispose of the collected material according to the instructions in the section 13.

6.4 Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling:

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

7.3 Specific end use(s

not available

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value	Note
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m³	
	OEL 8 hours	500 ppm	
xylene (CAS: 1330-20-7)	OEL 8 hours	221 mg/m³	Skin
	OEL 8 hours	50 ppm	
	OEL 15minutes	442 mg/m³	
	OEL 15minutes	100 ppm	

8.2 Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed). EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	white
Odour	after solvents
Melting point/freezing point	data not available

Boiling point or initial boiling point and boiling range	56 °C
Flammability	not determined
Lower and upper explosion limit	
bottom	0,8 %
upper	13,3 %
Flash point	0 °C
Auto-ignition temperature	data not available
Decomposition temperature	not determined
pH	non-soluble (in water)
Kinematic viscosity	<7 mm²/s at 40 °C
Solubility in water	miscible
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	590-1760 kPa at 45 °C
Density and/or relative density	
Density	not determined
Relative density	0,815
Relative vapour density	data not available
Particle characteristics	not applicable
Form	aerosol dispenser: spray aerosol

9.2 Other information

Ignition temperature: 230 °C

SECTION 10: Stability and Reactivity

10.1 Reactivity:

When used in the standard way, there is not any dangerous reaction with other substances.

10.2 Chemical stability:

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions:

Unknown.

10.4 Conditions to avoid:

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5 Incompatible materials:

Protect against oxidizing agents.

10.6 Hazardous decomposition products:

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

acetone

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	5800 mg/kg		Rat	
Dermal	LD_{50}	20000 mg/kg		Rabbit	

propan-2-ol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	5840 mg/kg		Rat	
Dermal	LD_{50}	12800 mg/kg		Rabbit	
Inhalation	LC_{50}	30 mg/l	4 hour	Rat	

xylene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	4300 mg/kg		Rat	
Dermal	LD_{50}	2000 mg/kg		Rabbit	

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitization
Based on available data the classification criteria are not met.
Germ cell mutagenicity:
Based on available data the classification criteria are not met.
Carcinogenicity:
Based on available data the classification criteria are not met
Reproductive toxicity
Based on available data the classification criteria are not met.
Toxicity for specific target organ - single exposure
May cause drowsiness or dizziness. May cause respiratory irritation.
Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.
Aspiration hazard
May be fatal if swallowed and enters airways.

11.2 Information on other hazards
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1 Toxicity
Acute toxicity
Toxic to aquatic life with long lasting effects.
Petroleum Light aromatic C9

Parameter	Value	Exposure time	Species	Environment
EC_{50}	3.2 mg/l	48 hour	Daphnia	

propan-2-ol

Parameter	Value	Exposure time	Species	Environment
LC_{50}	9640 mg/l	96 hour	Fishes	
LC_{50}	>10000 mg/l	24 hour	Daphnia	

xylene

Parameter	Value	Exposure time	Species	Environment
LC_{50}	24-30 mg/l	96 hour	Fishes	
LC_{50}	100-1000 mg/l	24 hour	Daphnia (Daphnia magna)	

Chronic toxicity
propan-2-ol

Parameter	Value	Exposure time	Species	Environment
NOEC	1050 mg/l		Microorganisms	

12.2 Persistence and degradability:
Biodegradability
Petroleum Light aromatic C9

Parameter	Value	Exposure time	Environment	Result
	>60 %	28 day		Biodegradable

The mixture is biodegradable.

12.3 Bioaccumulative potential:
Data not available.
12.4 Mobility in soil:
Data not available.
12.5 Results of PBT and vPvB assessment
Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.
12.6 Endocrine disrupting properties
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
12.7 Other adverse effects:
Not available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport Information

14.1 UN Number or ID number

UN 1950

14.2 UN proper shipping name

2 Gases

14.3 Transport hazard class(es)

AEROSOLS

14.4 Packing group

not relevant

14.5 Environmental hazards

not relevant

14.6 Special precautions for user

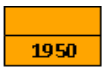
Reference in the Sections 4 to 8.

14.7 Maritime transport in bulk according to IMO instruments not relevant

Additional information:

Hazard identification No.

UN number



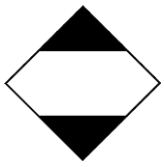
Classification code 5F

Safety signs 2.1+hazardous for the environment

Road transport - ADR

Limited quantities 1 L

Sign



Air transport - ICAO/IATA

Packaging instructions passenger 203

Cargo packaging instructions 203

Marine transport - IMDG

EmS (emergency plan) F-D, S-U

MFAG 620

SECTION 15: Regulatory Information.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information.

A list of standard risk phrases used in the safety data sheet

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P391	Collect spillage.
P405	Store locked up.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Training guidelines
Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.
Recommended restrictions of use
not available
Information about data sources used to compile the Safety Data Sheet
REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information
Classification procedure - calculation method.

Statement
The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.