

# SAFETY DATA SHEET PROTEAN ELECTRICAL CLEANER F406

# 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:	PROTEAN ELECTRICAL CLEANER
Article number:	F406
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Use of substance / mixture:	PC35: Washing and cleaning products (including solvent based products).
1.3 Details of the supplier of	the safety data sheet
Manufacturer/Supplier:	TYGRIS Industrial Unit 31 Kyle Road Industrial Estate Irvine Ayrshire KA12 8LE Tel +44 (0) 1294 311 066 Fax +44 (0) 1294 277 115 Email technical@tygrisindustrial.com
Further information obtainable from:	Technical Department

**1.4 Emergency telephone** Tel +44 (0) 1294 311 066 number:





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# 2. Hazards identification

2.1. Classification	of the	substance	or mixture
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2.1. OldSSilledion of the Sub	
Classification under CLP:	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Flam. Aerosol 1: H222; Skin Irrit. 2: H315; STOT SE 3: H336; -: H229
Most important adverse effects:	Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
2.2. Label elements	
Hazard statements:	<ul> <li>H222: Extremely flammable aerosol.</li> <li>H229: Pressurised container: May burst if heated</li> <li>H315: Causes skin irritation.</li> <li>H319: Causes serious eye irritation.</li> <li>H336: May cause drowsiness or dizziness.</li> <li>H400: Very toxic to aquatic life.</li> <li>H410: Very toxic to aquatic life with long lasting effects.</li> </ul>
Hazard pictograms:	GHS02: Flame GHS07: Exclamation mark GHS09: Environmental
Signal word:	Danger
Precautionary statements:	<ul> <li>P102: Keep out of reach of children.</li> <li>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211: Do not spray on an open flame or other ignition source.</li> <li>P251: Do not pierce or burn, even after use.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.</li> </ul>
2.3. Other hazards	
Other hazards:	In use, may form flammable / explosive vapour-air mixture.
PBT:	This product is not identified as a PBT/vPvB substance.





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# 3. Composition/information on ingredients

## 3.2. Mixtures

# Hazardous ingredients:

#### PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	30-50%

#### HEPTANE - REACH registered number(s): 01-2119475515-33-XXXX

205-563-8	142-82-5	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	30-50%
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## METHANOL

200-659-6 67-56-1 -	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	<1%
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# 4. First aid measures

4.1. Description of first aid me	easures
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Do not induce vomiting. Consult a doctor.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours.
4.2. Most important symptom	s and effects, both acute and delayed
Skin contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Inhalation:	No data available.
Delayed / immediate effects:	No data available.
4.3. Indication of any immedia	ate medical attention and special treatment needed
Immediate / special treatment:	Not applicable.





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# 5. Firefighting measures

5.1 Extinguishing media	
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used.
5.2. Special hazards arising f	rom the substance or mixture
Exposure hazards:	Extremely flammable. In combustion emits toxic fumes. Forms explosive air- vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
5.3. Advice for fire-fighters	
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

contact with skin and eyes.

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. If outside do not approach from downwind.

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

## 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## 7. Handling and storage

## 7.1 Precautions for safe handling

Handling requirements:	Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden. Use non-sparking tools.
7.2. Conditions for safe stora	age, including any incompatibilities
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from sources of ignition.
Suitable packaging:	Must only be kept in original packaging.
7.3. Specific end use(s)	
Specific end use(s):	No data available.





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# 8. Exposure controls/personal protection

# 8.1. Control parameters

# Hazardous ingredients:

## PROPAN-2-OL

## Workplace exposure limits:

Workplace exposure limits:			Respirable dust:	
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m³	1250 mg/m³	-	-

#### **HEPTANE**

UK	2100 mg/m <sup>3</sup>	8400 mg/m <sup>3</sup>	-	-
METHANOL				

UK	266 mg/m <sup>3</sup>	333 mg/m <sup>3</sup>	-	-	
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## **DNEL/PNEC Values**

## Hazardous ingredients:

# HEPTANE

Туре	Exposure	Value	Population	Effect
DNEL	Dermal	300mg/kg/day	Workers	Systemic
DNEL	Inhalation	2085mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	149mg/kg/day	Consumers	Systemic
DNEL	Inhalation	447mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Oral	149mg/kg/day	Consumers	Systemic

## 8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory equipment:	Respiratory protection not required.
Hand protection:	Chemically resistant gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Environmental:	Prevent from entering in public sewers or the immediate environment.





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# 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties				
State:	Aerosol			
Colour:	Colourless			
Odour:	Characteristic odour			
Solubility in water:	Soluble			
Also soluble in:	Most organic solvents			
Flash point°C:	-60			
Relative density:	0.75			
9.2. Other information				
Other information:	No data available.			

# 10. Stability and reactivity

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10.1. Reactivity				
Reactivity:	Stable under recommended transport or storage conditions.			
10.2. Chemical stability				
Chemical stability:	Stable under normal conditions. Stable at room temperature.			
10.3. Possibility of hazardou	s reactions			
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.			
10.4. Conditions to avoid				
Conditions to avoid:	Direct sunlight. Heat. Hot surfaces. Sources of ignition. Flames.			
10.5. Incompatible materials				
Materials to avoid:	Strong oxidising agents. Strong acids.			
10.6. Hazardous decomposition products				
Haz. decomp. products:	In combustion emits toxic fumes.			





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# 11. Toxicological information

# 11.1. Information on toxicological effects

## Hazardous ingredients:

## PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

#### HEPTANE

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg
VAPOURS	RAT	4H LC50	>20	mg/l

# METHANOL

IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg

#### **Relevant hazards for product:**

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

#### Symptoms / routes of exposure

Skin contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Inhalation:	No data available.
Delayed / immediate effects:	No data available.
Other information:	Not applicable.





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# 12. Ecological information

## 12.1. Toxicity

# Hazardous ingredients:

HEPTANE

Daphnia magna		48H EC50	<10	mg/l	
RAINBOW TROUT (Oncorhy	RAINBOW TROUT (Oncorhynchus mykiss)		<10	mg/l	
12.2. Persistence and degradability					
Persistence and degradability:	No data availa	ble.			
12.3. Bioaccumulative potential					
Bioaccumulative potential:	No data available.				
12.4. Mobility in soil					
Mobility:	No data available.				
12.5. Results of PBT and vPvB assessment					
<b>PBT identification:</b> This product is not identified as a PBT/vPvB substance.					

## 12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

# 13. Disposal considerations

## 13.1. Waste treatment methods

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
Recovery operations:	Not applicable.
Disposal of packaging:	Not applicable.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.





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# 14. Transport information

14.1. UN number			
UN number:	UN1950		
14.2. UN proper shipping nar	ne		
Shipping name:	AEROSOLS		
14.3. Transport hazard class(	(es)		
Transport class:	2		
14.4. Packing group			
14.5. Environmental hazards			
Environmentally hazardous:	Yes		
Marine pollutant:	No		
14.6. Special precautions for user			
Special precautions:	No special precautions.		
Tunnel code:	D		
Transport category:	2		

# 15. Regulatory information

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

Specific regulations: Not applicable.

## 15.2. Chemical safety assessment

Chemical safety<br/>assessment:A chemical safety assessment has not been carried out for the substance or the<br/>mixture by the supplier.





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# 16. Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Phrases used in s.2 and s.3:	<ul> <li>H222: Extremely flammable aerosol.</li> <li>H225: Highly flammable liquid and vapour.</li> <li>H229: Pressurised container: May burst if heated</li> <li>H301: Toxic if swallowed.</li> <li>H304: May be fatal if swallowed and enters airways.</li> <li>H311: Toxic in contact with skin.</li> <li>H315: Causes skin irritation.</li> <li>H319: Causes serious eye irritation.</li> <li>H331: Toxic if inhaled.</li> <li>H336: May cause drowsiness or dizziness.</li> <li>H370: Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></or></li> <li>H400: Very toxic to aquatic life.</li> <li>H410: Very toxic to aquatic life with long lasting effects.</li> </ul>
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

