

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

### 1.1 Product identifier

**Trade name:** ELECTRICAL CLEANER NSF

**Article number:** F406

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

### 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](mailto:technical@tygrisindustrial.com)

**Further information obtainable from:** Technical Department

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

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

<b>Classification (EC 1272/2008)</b>	Physical and Chemical Hazards	Flam. Aerosol 1: H222; H229
	Human health	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H336;
	Environment	Aquatic Acute 1: H400; Aquatic Chronic 1: H410

### Classification (1999/45/EEC)

**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.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### 2.2. Label elements

**Label In Accordance With (EC) No. 1272/2008**



**Signal Word**

Danger

**Hazard Statements**

H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
H400: Very toxic to aquatic life.  
H410: Very 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.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+352: IF ON SKIN: Wash with plenty of water/.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

**2.3. Other hazards**

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

**PBT:**

This product is not identified as a PBT/vPvB substance.

### 3. Composition/information on ingredients

#### 3.2. Mixtures

<p>PROPAN-2-OL</p> <p>Index No.</p> <p>CAS-No.: 67-63-0</p> <p>Classification (EC 1272/2008) Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336</p>	<p>30-50%</p> <p>REACH Registration No.</p> <p>EINECS: 200-661-7</p> <p>Classification (67/548/EEC)</p>
<p>HEPTANE</p> <p>Index No.</p> <p>CAS-No.: 142-82-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 2: H225; Asp. Tox. 1: H304; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Acute 1: H400; Aquatic Chronic 1: H410</p>	<p>30-50%</p> <p>REACH Registration No.</p> <p>EINECS: 205-563-8</p> <p>Classification (67/548/EEC)</p>
<p>PROPANE</p> <p>Index No.</p> <p>CAS-No.: 74-98-6</p> <p>Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280</p>	<p>10-30%</p> <p>REACH Registration No.</p> <p>EINECS: 200-827-9</p> <p>Classification (67/548/EEC)</p>
<p>BUTANE</p> <p>Index No.</p> <p>CAS-No.: 106-97-8</p> <p>Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280</p>	<p>1-10%</p> <p>REACH Registration No.</p> <p>EINECS: 203-448-7</p> <p>Classification (67/548/EEC)</p>
<p>ISOBUTANE</p> <p>Index No.</p> <p>CAS-No.: 75-28-5</p> <p>Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280</p>	<p>1-10%</p> <p>REACH Registration No.</p> <p>EINECS: 200-857-2</p> <p>Classification (67/548/EEC)</p>

METHANOL	0.1-1%
Index No.	REACH Registration No.
CAS-No.: 67-56-1	EINECS: 200-659-6
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2: H225;	
Acute Tox. 3: H331;	
Acute Tox. 3: H311;	
Acute Tox. 3: H301;	
STOT SE 1: H370	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16

## 4. First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours.
<b>Ingestion</b>	Do not induce vomiting. Consult a doctor.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Bathe the eye with running water for 15 minutes. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

### 4.3. Indication of any immediate medical attention and special treatment needed

## 5. Firefighting measures

### 5.1 Extinguishing Media

<b>Extinguishing media</b>	Suitable extinguishing media for the surrounding fire should be used.
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### 5.2. Special hazards arising from the substance or mixture

<b>Exposure hazards</b>	Extremely flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
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### 5.3. Advice for firefighters

<b>Advice for fire-fighters</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**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 storage, including any incompatibilities

**Storage conditions** Store in 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)

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
PROPAN-2-OL	WEL		999 mg/m3		1250 mg/m3
HEPTANE	WEL		2100 mg/m3		8400 mg/m3
PROPANE	WEL		1800 mg/m3		7200 mg/m3
BUTANE	WEL		1450 mg/m3		1810 mg/m3
ISOBUTANE	WEL		2400 mg/m3		9600 mg/m3
METHANOL	WEL		266 mg/m3		333 mg/m3

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### 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.

#### Other Protection

Protective clothing.

#### Environmental

Prevent from entering in public sewers or the immediate environment.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Colourless
Odour	Characteristic odour
Flash point°C	-60

### 9.2. Other information

## 10. Stability and reactivity

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Stable under normal conditions. Stable at room temperature.

### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

Direct sunlight. Heat. Hot surfaces. Sources of ignition. Flames.

### 10.5. Incompatible materials

Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

In combustion emits toxic fumes.

## 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

IVN	MUS	LD50	222	mg/kg
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##### METHANOL

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

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT DRM	Hazardous: calculated

#### Symptoms / routes of exposure

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

## 12. Ecological information

### 12.1. Toxicity

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

Toxic to aquatic organisms.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.





## 15. Regulatory information

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

#### Uk Regulatory References

#### Statutory Instruments

#### Approved Code Of Practice

#### Guidance Notes

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## 16. Other information

**Phrases used in s.2 and s.3**

H220: Extremely flammable gas.  
H222: Extremely flammable aerosol.  
H225: Highly flammable liquid and vapour.  
H229: Pressurised container: May burst if heated  
H301: Toxic if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H311: Toxic in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H331: Toxic if inhaled.  
H336: May cause drowsiness or dizziness.  
H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.