

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name:** PROTEAN STAINLESS STEEL CLEANER

**Article number:** F420

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

**Further information obtainable from:** Technical Department

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

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Classification under CLP:** Aquatic Chronic 2: H411; Flam. Aerosol 1: H222; -: H229

**Most important adverse effects:** Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

**Hazard statements:** H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated  
H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS02: Flame  
GHS09: Environmental



**Signal word:** Danger

**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. P410 +412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

##### 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.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

ISOPAR G - REACH registered number(s): 01-2119471991-29

EINECS	CAS	PBT / WEL	CLP Classification	Percent
923-037-2	-	-	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226	30-50%

**PROPANE**

200-827-9	74-98-6	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	30-50%
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**BUTANE**

203-448-7	106-97-8	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	10-30%
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**ISOBUTANE**

200-857-2	75-28-5	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	1-10%
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D40 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, DE-AROMATISED - REACH registered number(s): 01-2119463258-33-XXXX

919-857-5	64742-48-9	-	Flam. Liq. 3: H226; STOT SE 3: H336; Asp. Tox. 1: H304; -: EUH066	1-10%
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PENTANE - REACH registered number(s): 01-2119459286-30

203-692-4	109-66-0	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; -: EUH066	1-10%
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**PROPAN-2-OL**

200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	1-10%
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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**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 symptoms and effects, both acute and delayed**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

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

**Immediate / special treatment:** Not applicable.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

**5.2. Special hazards arising from 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 contact with skin and eyes.

**SECTION 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.

**SECTION 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 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):** PC35: Washing and cleaning products (including solvent based products).

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:**

PROPANE

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1800 mg/m <sup>3</sup>	7200 mg/m <sup>3</sup>	-	-

BUTANE

UK	1450 mg/m <sup>3</sup>	1810 mg/m <sup>3</sup>	-	-
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ISOBUTANE

UK	2400 mg/m <sup>3</sup>	9600 mg/m <sup>3</sup>	-	-
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D40 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, DE-AROMATISED

UK	150ppm 1000mg/m <sup>3</sup>	-	-	-
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PENTANE

UK	1800 mg/m <sup>3</sup>	-	-	-
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PROPAN-2-OL

UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-
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**DNEL/PNEC Values**

**Hazardous ingredients:**

D40 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, DE-AROMATISED

Type	Exposure	Value	Population	Effect
DNEL	Dermal	208 mg/kg/day	Workers	Systemic
DNEL	Inhalation	871 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	125 mg/kg/day	Consumers	Systemic
DNEL	Inhalation	185 mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Oral	125 mg/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.

**SECTION 9: Physical and chemical properties**

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

<b>State:</b>	Aerosol
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic odour
<b>Solubility in water:</b>	Insoluble
<b>Also soluble in:</b>	Most organic solvents
<b>Flash point°C:</b>	-60
<b>Relative density:</b>	0.74

**9.2. Other information**

**Other information:** No data available.

**SECTION 10: Stability and reactivity**

**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 hazardous 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.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

ISOPAR G

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

D40 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, DE-AROMATISED

DERMAL	RBT	LD50	>5000	mg/kg
GASES	RAT	4H LC50	>5000	mg/l
ORAL	RAT	LD50	>5000	mg/kg

PENTANE

ORAL	RAT	LD50	>2000	mg/kg
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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

**Toxicity values:** No data available.

**Symptoms / routes of exposure**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.



**SECTION 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

D40 NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, DE-AROMATISED

ALGAE	72H IC50	>1000	mg/l
Daphnia magna	48H EC50	>1000	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>1000	mg/l

PENTANE

FISH	96H LC50	1-10	mg/l
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**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** Insoluble in water.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

**Other adverse effects:** Toxic to aquatic organisms.

**SECTION 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.

**SECTION 14: Transport information**

**14.1. UN number**

UN number: UN1950

**14.2. UN proper shipping name**

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

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

**SECTION 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:** EUH066: Repeated exposure may cause skin dryness or cracking.  
 H220: Extremely flammable gas.  
 H222: Extremely flammable aerosol.  
 H225: Highly flammable liquid and vapour.  
 H226: Flammable liquid and vapour.  
 H229: Pressurised container: May burst if heated  
 H304: May be fatal if swallowed and enters airways.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.  
 H411: Toxic to aquatic life with long lasting effects.

**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.