

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

**1.1 Product identifier**

**Trade name:** PROTEAN PTFE DRY FILM LUBRICANT

**Article number:** F410

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

**Use of substance / mixture:** PC24: Lubricants, greases, release 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:** Flam. Aerosol 1: H222; Aquatic Chronic 2: H411; STOT SE 3: H336; -: EUH066; -: H229

**Most important adverse effects:** Repeated exposure may cause skin dryness or cracking. Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

**Hazard statements:** EUH066: Repeated exposure may cause skin dryness or cracking.  
H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated  
H336: May cause drowsiness or dizziness.  
H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS02: Flame  
GHS07: Exclamation mark



**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.  
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

**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:

PENTANE - REACH registered number(s): 01-2119459286-30

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-692-4	109-66-0	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; -: EUH066	10-30%

**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. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. Move the exposed person to fresh air.

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

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

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

**Ingestion:** The eyes may water profusely. 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. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**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. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 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. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 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:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

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

**8.1. Control parameters**

**Hazardous ingredients:**

PENTANE

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1800 mg/m3	-	-	-

**DNEL/PNEC Values**

**DNEL/PNEC:** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory equipment:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves. Chemically resistant gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Not applicable.

**SECTION 9: Physical and chemical properties**

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

**State:** Aerosol  
**Colour:** White  
**Odour:** Characteristic odour  
**Solubility in water:** Insoluble  
**Also soluble in:** Most organic solvents  
**Flash point°C:** -60  
**Relative density:** 0.72

**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.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat.

**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:**

PENTANE

ORAL	RAT	LD50	>2000	mg/kg
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**Relevant hazards for product:**

Hazard	Route	Basis
STOT-single exposure	-	Hazardous: calculated

**Symptoms / routes of exposure** There may be irritation and redness at the site of contact.

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

**Eye contact:** The eyes may water profusely.

**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. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** Not applicable.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

PENTANE

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

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**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:** Negligible ecotoxicity.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Dispose of contents and container according to national regulations.

**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: No

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.  
 H222: Extremely flammable aerosol.  
 H225: Highly flammable liquid and vapour.  
 H229: Pressurised container: May burst if heated  
 H304: May be fatal if swallowed and enters airways.  
 H336: May cause drowsiness or dizziness.  
 H411: Toxic to aquatic life with long lasting effects.  
 H412: Harmful 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.