

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

### 1.1 Product identifier

**Trade name:** CHAIN & WIRE LUBRICANT

**Article number:** R220

### 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  
Ayshire  
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
	Human health	Lact. - H362; STOT SE 3 - H336
	Environment	Aquatic Chronic 2 - H411

**Classification (1999/45/EEC)** F+; R12. N; R51/53. R64, R67

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.  
 H336 May cause drowsiness or dizziness.  
 H362 May cause harm to breast-fed children.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P102 Keep out of reach of children.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P271 Use only outdoors or in a well-ventilated area.  
 P263 Avoid contact during pregnancy/while nursing.  
 P261 Avoid breathing vapour/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P501 Dispose of contents/container in accordance with local regulations.

**Supplementary Precautionary Statements**

P201 Obtain special instructions before use.  
 P211 Do not spray on an open flame or other ignition source  
 P251 Pressurized container: Do not pierce or burn, even after use.  
 P270 Do not eat, drink or smoke when using this product.  
 P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P337+313 If eye irritation persists: Get medical advice/attention.  
 P403+233 Store in a well-ventilated place. Keep container tightly closed.  
 P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

**Supplemental label information**

H229 Pressurised container: May burst if heated

### 2.3. Other hazards

### 3. Composition/information on ingredients

#### 3.2. Mixtures

BUTANE	5-10%
CAS-No.: 106-97-8	EC No.: 203-448-7
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12
CHLORINATED PARAFFIN C14-C17 (51%)	1-5%
CAS-No.: 85535-85-9	EC No.: 287-477-0
Classification (EC 1272/2008) EUH066 Lact. - H362 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53. R64,R66
ISOBUTANE	1-5%
CAS-No.: 75-28-5	EC No.: 200-857-2
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12
MINERAL OIL (REFINED)	30-60%
CAS-No.: 64742-52-5	EC No.: 265-155-0
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT	10-30%
CAS-No.: 64742-49-0	EC No.: 921-024-6
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R38. F;R11. N;R51/53. R67.
PROPANE	10-30%
CAS-No.: 74-98-6	EC No.: 200-827-9
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12
WHITE SPIRIT	< 1%
CAS-No.: 64742-82-1	EC No.: 919-446-0
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65,R48/20. N;R51/53. R10,R66,R67.

XYLENE	< 1%
CAS-No.: 1330-20-7	EC No.: 215-535-7
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38

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>General information</b>	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues
<b>Inhalation:</b>	Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
<b>Ingestion</b>	DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash the skin immediately with soap and water. Get medical attention if any discomfort continues
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 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

**Extinguishing media** Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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

**Unusual Fire & Explosion Hazards** Aerosol cans may explode in a fire.

### 5.3. Advice for firefighters

**Special Fire Fighting Procedures** Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours

## 6. Accidental release measures

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

### 6.2. Environmental precautions

**6.3. Methods and material for containment and cleaning up** Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

### 6.4. Reference to other sections

## 7. Handling and storage

**7.1 Precautions for safe handling** Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

**7.2. Conditions for safe storage, including any incompatibilities** Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

### 7.3. Specific end use(s)

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
BUTANE	WEL	600 ppm	1450 mg/m <sup>3</sup>	750 ppm	1810 mg/m <sup>3</sup>
MINERAL OIL (REFINED)			5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT			1200 mg/m <sup>3</sup>	60 ppm	216 mg/m <sup>3</sup>
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating
WHITE SPIRIT			600 mg/m <sup>3</sup>		
XYLENE	WEL	50 ppm(Sk)	220 mg/m <sup>3</sup> (Sk)	100 ppm(Sk)	441 mg/m <sup>3</sup> (Sk)

### 8.2. Exposure controls

#### Protective equipment

**Engineering measures** Provide adequate general and local exhaust ventilation

**Respiratory equipment** No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge.

**Hand protection** Use protective gloves

**Eye protection** Use approved safety goggles or face shield

**Other Protection** Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact

**Hygiene measures** DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9. Physical and chemical properties

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

<b>Appearance</b>	Aerosol
<b>Colour</b>	Brown.
<b>Odour</b>	Characteristic
<b>Solubility</b>	Insoluble in water
<b>Flammability Limit - Lower(%)</b>	0.8
<b>Flammability Limit - Upper(%)</b>	9.0

### 9.2. Other information

## 10. Stability and reactivity

### 10.1. Reactivity

**10.2. Chemical stability** Stable under normal temperature conditions

### 10.3. Possibility of hazardous reactions

**10.4. Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids

**Conditions to avoid** Avoid excessive heat for prolonged periods of time

### 10.5. Incompatible materials

**10.6. Hazardous decomposition products** Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Inhalation</b>	May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach
<b>Skin contact</b>	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes. May cause chemical eye burns
<b>Route of entry</b>	Inhalation. Skin and/or eye contact

## 12. Ecological information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses

### 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

### 12.6. Other adverse effects

## 13. Disposal considerations

**13.1. Waste treatment methods** Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

## 14. Transport information

### 14.1. UN number

UN No. (ADR/RID/ADN) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

### 14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class 2

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.1

IMDG Class 2.1

ICAO Class/Division 2.1

### Transport Labels

### 14.4. Packing group

ADR/RID/ADN Packing group N/A

IMDG Packing group N/A

ICAO Packing group N/A

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No

### 14.6. Special precautions for user

EMS F-D, S-U

Tunnel Restriction Code (D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code



## 15. Regulatory information

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

UK Regulatory References

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

The Control of Substances Hazardous to Health Regulations 2002.

Statutory Instruments

The Control of Substances Hazardous to Health Regulations 2002.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

### 15.2. Chemical safety assessment

## 16. Other information

### Risk Phrases In Full

R12 Extremely flammable.  
 R10 Flammable.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R65 Harmful: may cause lung damage if swallowed.  
 R11 Highly flammable  
 R38 Irritating to skin.  
 R64 May cause harm to breastfed babies.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R67 Vapours may cause drowsiness and dizziness.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

H319 Causes serious eye irritation.  
 H315 Causes skin irritation.  
 H222 Extremely flammable aerosol.  
 H220 Extremely flammable gas.  
 H226 Flammable liquid and vapour.  
 H332 Harmful if inhaled.  
 H312 Harmful in contact with skin.  
 H412 Harmful to aquatic life with long lasting effects.  
 H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.  
 H336 May cause drowsiness or dizziness.  
 H362 May cause harm to breast-fed children.  
 H335 May cause respiratory irritation.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 H411 Toxic to aquatic life with long lasting effects.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H400 Very toxic to aquatic life.