

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

1.1 Product identifier

Trade name: COPPER ANTI-SEIZE

Article number: R234

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

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

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Aerosol 1 - H222; -: H229
Human health	STOT SE 3 - H336
Environment	Aquatic Chronic 2 - H411

Classification (1999/45/EEC) -

Most important adverse effects Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. 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
H336: May cause drowsiness or dizziness.
H411: 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.
P271: Use only outdoors or in a well-ventilated area.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor//if you feel unwell.
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplementary Precautionary Statements

2.3. Other hazards

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

3. Composition/information on ingredients
3.2. Mixtures

PENTANE Index No. CAS-No.: 109-66-0 Classification (EC 1272/2008) Flam. Liq. 2: H225; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; -: EUH066	30-50% REACH Registration No. 01-2119459286-30 EC No.: 203-692-4 Classification (67/548/EEC) -
PROPANE Index No. CAS-No.: 74-98-6 Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280	10-30% REACH Registration No. EC No.: 200-827-9 Classification (67/548/EEC) -
BUTANE Index No. CAS-No.: 106-97-8 Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280	1-10% REACH Registration No.: 01-2119475514-35-xxxx EC No.: 203-448-7 Classification (67/548/EEC) -
ISOBUTANE Index No. CAS-No.: 75-28-5 Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280	1-10% REACH Registration No. EC No.: 200-857-2 Classification (67/548/EEC) -
DE-AROMATISED SOLVENT Index No. CAS-No.: 64742-47-8 Classification (EC 1272/2008) STOT SE 3: H336; Flam. Liq. 3: H226; -: EUH066	1-10% REACH Registration No. 01-2119463258-33-xxxx EC No.: Classification (67/548/EEC) -

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

General information	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	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.
Ingestion	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.
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	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 Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion 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 firefighters

Special Fire Fighting Procedures Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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. 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	
PENTANE	WEL		1800 mg/m ³		
PROPANE	WEL		1800 mg/m ³		7200 mg/m ³
BUTANE	WEL		1450 mg/m ³		1810 mg/m ³
ISOBUTANE	WEL		2400 mg/m ³		9600 mg/m ³

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

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

Appearance	Aerosol
Colour	Orange-red
Odour	Characteristic
Solubility	Insoluble in water
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 temperature conditions.

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

PENTANE			
ORAL	RAT	LD50	>2000 mg/kg

Inhalation	No data available.
Ingestion	No data available.
Skin contact	No data available.
Eye contact	No data available.
Route of entry	No data available.

12. Ecological information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Hazardous ingredients

PENTANE		
FISH	96H LC50	1-10 mg/l

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

Toxic to aquatic organisms.

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

Packing group Not applicable.

14.5. Environmental hazards

Environmentally Hazardous
Substance/Marine Pollutant

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****15.2. Chemical safety assessment****16. Other information**

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.
H336: May cause drowsiness or dizziness.
H411: 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.