

## **COPPER ANTISEIZE**

### **1. Identification of the Substance/Preparation and Company/Undertaking**

#### **1.1. Product identifier**

**Product Name:** Quantum Copper Antiseize.

**Product Number:** ZGB00QCPG500

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

**Identified uses:** Anti-seize aerosol.

#### **1.3. Details of the supplier of the safety data sheet**

**Supplier:** Quantum, a registered trade mark of Volkswagen Group United Kingdom Limited, Yeomans Drive, Blakelands, Milton Keynes MK14 5AN

**Emergency Telephone Number:** +44 (0)1793 512 712

### **2. Hazards Identification**

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

**Classification (1999/45/EEC):** Xi;R38. F+;R12. R52/53, R67.

**Human Health:** Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Environment:** This product contains substances which are very toxic or toxic to aquatic organisms and may cause long term effects to the aquatic environment.

**Physical and Chemical Hazards:** Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

## **COPPER ANTISEIZE**

### **2. Hazards Identification continued**

#### **2.2. Label elements**

**Labelling:** See symbols opposite.

#### **Risk Phrases**

**R12:** Extremely flammable.

**R38:** Irritating to skin.

**R52/53:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R67:** Vapours may cause drowsiness and dizziness.

#### **Safety Phrases**

**A1:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

**A2:** Do not spray on a naked flame or any incandescent material.

**S2:** Keep out of the reach of children.

**S16:** Keep away from sources of ignition - No smoking.

**S23:** Do not breathe vapour/spray.

**S24:** Avoid contact with skin.

**S29/56:** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**S51:** Use only in well-ventilated areas.

#### **2.3. Other hazards**



**HARMFUL**



**EXTREMELY  
FLAMMABLE**

## **COPPER ANTISEIZE**

### **3. Composition/Information on Ingredients**

#### **3.2 Mixtures**

**BUTANE:** 10-30%

**CAS-Number:** 106-97-8

Classification (EC 1272/2008)

Flam. Gas 1 - H220

**EC-Number:** 203-448-7

Classification (67/548/EEC)

F+;R12

**ISOBUTANE:** 5-10%

**CAS-Number:** 75-28-5

Classification (EC 1272/2008)

Flam. Gas 1 - H220

**EC-Number:** 200-857-2

Classification (67/548/EEC)

F+;R12

**NAPHTHA (petroleum) hydrodesulfurized light dearomatized:** 10-30%

**CAS-Number:** 92045-53-9

Classification (EC 1272/2008)

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

**EC-Number:** 295-434-2

Classification (67/548/EEC)

Xn;R65.

Xi;R38.

F;R11.

N;R51/53.

R67.

**NAPHTHA (petroleum) hydrotreated light:** 10-30%

**CAS-Number:** 64742-49-0

Classification (EC 1272/2008)

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

**EC-Number:** 265-151-9

Classification (67/548/EEC)

Xn;R65.

Xi;R38.

F;R11.

N;R51/53.

R67.

**PROPANE:** 10-30%

**CAS-Number:** 74-98-6

Classification (EC 1272/2008)

Flam. Gas 1 - H220

**EC-Number:** 200-827-9

Classification (67/548/EEC)

F+;R12

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

## **COPPER ANTISEIZE**

### **4. First Aid Measures**

#### **4.1 Description of first aid measures**

**General information:** Move the exposed person to fresh air at once.

**Inhalation:** In case of inhalation of spray mist: Move person into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion:** Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention.

**Skin contact:** Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

**Eye contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

#### **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:** Extinguish with foam, carbon dioxide, dry powder or water fog.

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

**Unusual Fire & Explosion Hazards:** Extremely flammable. Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Aerosol cans may explode in a fire.

**Specific hazards:** Aerosol containers can explode when heated, due to excessive pressure build-up.

#### **5.3 Advice for firefighters**

**Special Fire Fighting Procedures:** Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

### **6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

**6.2 Environmental precautions:** Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

**6.3 Methods and material for containment and cleaning up:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material. Let evaporate. Keep out of confined spaces because of explosion risk.

#### **6.4 Reference to other sections**

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## 7. Handling and Storage

**7.1 Precautions for safe handling:** Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray near a naked flame or any incandescent material.

**7.2 Conditions for safe storage, including any incompatibilities:** Extremely flammable. Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

**7.3 Specific end use(s)**

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Butane	WEL	600 ppm		750 ppm		
Isobutane	WEL	800 ppm		No std.		
Naphtha (petroleum) hydrodesulfurized light dearomatized	WEL	315 ppm	1200 mg/m <sup>3</sup>			
Naphtha (petroleum) hydrotreated light	WEL	315 ppm	1200 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.

**Ingredient Comments:** container WEL = Workplace Exposure Limits

### 8.2 Exposure controls

**Engineering measures:** Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

**Respiratory equipment:** In case of inadequate ventilation use suitable respirator.

**Hand protection:** Due to the packaging form, aerosol, risk of skin contact is small. Use suitable protective gloves if risk of skin contact. Gloves of nitrile rubber, PVA or Viton are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Eye protection:** Wear approved chemical safety goggles where eye exposure is reasonably probable.

**Hygiene measures:** Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

**Personal protection:** When using do not smoke.

## **COPPER ANTISEIZE**

### **9. Physical and Chemical Properties**

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

<b>Appearance:</b>	Aerosol.
<b>Odour:</b>	Organic solvents.
<b>Flash point (°C):</b>	<-40 °C
<b>Auto Ignition Temperature (°C):</b>	410-580
<b>Flammability Limit - Lower(%):</b>	1.8
<b>Flammability Limit - Upper(%):</b>	9.5
<b>Comments:</b>	Information given concerns the major ingredient.

#### **9.2 Other information**

### **10. Stability and Reactivity**

#### **10.1 Reactivity**

**10.2 Chemical stability:** Avoid Heat, sparks, flames.

#### **10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:** Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

#### **10.5 Incompatible materials**

**10.6 Hazardous decomposition products:** In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

### **11. Toxicological Information**

#### **11.1. Information on toxicological effects**

**General information:** Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Inhalation:** In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

**Skin contact:** Irritating to skin.

**Eye contact:** Spray and vapour in the eyes may cause irritation and smarting.

**Health Warnings:** Arrhythmia, (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Route of entry:** Inhalation.

**Target Organs:** Central nervous system Respiratory system, lungs.

**Medical Symptoms:** Skin irritation. Arrhythmia, (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

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### **12. Ecological Information**

**Ecotoxicity:** This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering 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**

**General information:** Do not puncture or incinerate even when empty.

**13.1. Waste treatment methods:** Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Empty containers must not be burned because of explosion hazard.

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### 14. Transport Information

**General:** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

#### 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, 5F  
**ADR/RID/ADN Class:** Class 2.1: Flammable gases.  
**ADR Label No.:** 3  
**IMDG Class:** 2.1  
**ICAO Class/Division:** 2.1

#### Transport Labels:



#### 14.4. Packing group

**ADR/RID/ADN Packing group:** Not Applicable  
**IMDG Packing group:** Not Applicable  
**ICAO Packing group:** Not Applicable

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

**EMS** 2-13  
**Hazard No. (ADR)** 23 Flammable gas.  
**Tunnel Restriction Code** (D)

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

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### 15. Regulatory Information

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

**UK Regulatory References:** The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

**Statutory Instruments:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health. The Aerosol Dispensers Regulations 1977 & 1999.

**Approved Code Of Practice:** Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

**Guidance Notes:** Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

**EU Legislation:** Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

**National Regulations:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

#### 15.2. Chemical Safety Assessment

### 16. Other Information

**SDS No.:** 12733

**Safety Data Sheet Status:** Approved.

**Date 2:** 28.02.2013

#### Risk Phrases In Full

**R12:** Extremely flammable.

**R52/53:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R65:** Harmful: may cause lung damage if swallowed.

**R11:** Highly flammable

**R38:** Irritating to skin.

**R51/53:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R67:** Vapours may cause drowsiness and dizziness.

#### Hazard Statements In Full

**H315:** Causes skin irritation.

**H222:** Extremely flammable aerosol.

**H220:** Extremely flammable gas.

**H412:** Harmful to aquatic life with long lasting effects.

**H225:** Highly flammable liquid and vapour.

**H304:** May be fatal if swallowed and enters airways.

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

**H411:** Toxic to aquatic life with long lasting effects.