


## 1 Identification

- **Product identifier**
- **Trade name: COPPER PASTE**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Grease  
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MOTOREX AG  
Bern-Zürich-Strasse 31, Postfach  
CH-4901 Langenthal  
Tel. +41 (0)62 919 75 75  
www.motorex.com  
  
A1 Accessory Imports  
60-62 Burchill St.  
Loganholme  
4129 QLD  
Australia  
Phone : 07 3451 1300
- **Further information obtainable from: [msds@motorex.com](mailto:msds@motorex.com)**
- **Emergency telephone number:**  
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
Acute Tox. 4 H332 Harmful if inhaled.
- 
- **Label elements**
  - **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
  - **Hazard pictograms**
- 

GHS07
- **Signal word** Warning
  - **Hazard-determining components of labelling:**  
copper  
Lithium azelate
  - **Hazard statements**  
H332 Harmful if inhaled.
  - **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7440-50-8	copper	2.5-7.5%
EINECS: 231-159-6	Acute Tox. 3, H331; Acute Tox. 4, H302; Eye Irrit. 2, H319	
CAS: 38900-29-7	Dilithium azelate	≥1-≤3%
EINECS: 254-184-4	Acute Tox. 3, H301	

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	<5%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Remove residues with soap and water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting. Do not take in resorption stimulating agents.  
Consult a physician who will decide on need and method of emptying the stomach.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Emergency Action Code / HazChem-Code** 2Z
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The recommended storage temperature is (deg.C): ≤50°C  
Store containers closed and protect against rain, dust, heat and other atmospheric influences.  
Keep container tightly sealed.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.

- **Ingredients with limit values that require monitoring at the workplace:**

### 7440-50-8 copper

WES Long-term value: 1\* 0.2\*\* mg/m<sup>3</sup>  
\*dust & mists (as Cu) \*\*fume

- **DNELs**

### 7440-50-8 copper

Dermal	DNEL / Workers / Systemic effects / Long-term	137 mg/kg/24h (worker)
	DNEL/Workers/Systemic effects/acute-short term	273 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	137 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-short term	273 mg/kg/24h (consumer)
Inhalative	DNEL/Workers/Systemic effects/acute-short term	20 mg/m <sup>3</sup> (worker)
	DNEL/general pop/Systemic effects/acute-short term	20 mg/m <sup>3</sup> (consumer)

### 38900-29-7 Dilithium azelate

Dermal	DNEL/general population/Local effects/Long-term	0.023 mg/cm <sup>2</sup> (consumer)
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- **PNECs**

### 7440-50-8 copper

PNEC / Aquatic organisms / Freshwater	0.0078 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.0052 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	0.23 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	87 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	676 mg/kg (aquatic organisms)

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PNEC / Terrestrial organism / Soil	65 mg/kg (terrestrial organisms)
<b>38900-29-7 Dilithium azelate</b>	
PNEC / Aquatic organisms / Freshwater	0.023 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.0023 mg/l (aquatic organisms)
PNEC/Aquatic org/intermittent releases(freshwater)	0.23 mg/l (aquatic organisms)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Not necessary if room is well-ventilated.  
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

## 9 Physical and Chemical Properties

- **General Information**
- **Appearance:**
- **Form:** Pasty
- **Colour:** Gold coloured
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.
- **Drip point:** 280 °C
- **Flash point:** >250 °C
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.95 g/cm<sup>3</sup> (ASTM D 4052)

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· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	NLGI 2 @ 25 °C
· <b>Dynamic:</b>	NLGI 2 @ 25 °C
· <b>Kinematic:</b>	Not determined.
· <b>Solvent separation test:</b>	
· <b>VOC (EC)</b>	0.00 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Harmful if inhaled.

#### · LD/LC50 values relevant for classification:

##### 7440-50-8 copper

Oral	LD50	300-2,500 mg/kg (rat)
	NOAEL	1,000 ppm (mouse) 1,000 ppm (rat)
	LOAEL	2,000 ppm (mouse) 2,000 ppm (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	5.11 mg/l (rat)
	NOAEL	2 mg/m <sup>3</sup> (rat)
	LOEL	0.2 mg/m <sup>3</sup> (rat)

##### 38900-29-7 Dilithium azelate

Oral	LD50	300 mg/kg (rat)
Dermal	NOAEL	111.25-1,089.75 mg/kg/24h (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

**7440-50-8 copper**

LC50	0.0028-9.15 mg/l/96h (fish)
LC50	0.0005-0.302 mg/l/48h (aquatic invertebrates)
	0.0059-0.0302 mg/l/48h (fish)
EC50	0.012-0.0238 mg/l/24h (aquatic invertebrates)
EC50	0.005-0.042 mg/l/96h (aquatic invertebrates)
	0.047 mg/l/96h (algae / cyanobacteria)
EC50	0.0165-0.987 mg/l/72h (algae / cyanobacteria)
EC50	0.001-1.213 mg/l/48h (aquatic invertebrates)
NOEC	0.4-1 g/kg/21d (terrestrial arthropods)
	0.0234-0.0449 g/kg/21d (sediment)
NOEC	0.0279-1 g/kg/28d (terrestrial arthropods)
	0.042 g/kg/28d (terrestrial plants)
	0.0183-0.5809 g/kg/28d (sediment)
NOEC	0.0122-0.0292 mg/l/96h (fish)
	3.818 mg/l/96h (microorganisms)
NOEC	3.563-3.8 mg/l/48h (microorganisms)

**38900-29-7 Dilithium azelate**

LC50	100 mg/l/96h (fish)
EC10	3.3-100 mg/l/72h (algae / cyanobacteria)
EC50	8.2-100 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/48h (aquatic invertebrates)
NOEC	1-100 mg/l/72h (algae / cyanobacteria)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN3077

· **UN proper shipping name**

· **ADG**

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc powder -zinc dust (stabilized))

· **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc powder -zinc dust (stabilized))

· **Transport hazard class(es)**

· **ADG**



· **Class**

9 (M7) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG**



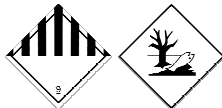
· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **Packing group**

· **ADG, IMDG, IATA**

III

· **Environmental hazards:**

Product contains environmentally hazardous substances: copper

· **Marine pollutant:**

No

· **Special marking (ADG):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

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<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles.</p> <p>90</p> <p>F-A,S-F</p> <p>A</p> <p>SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</p>
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>5 kg</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>3</p> <p>(-)</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>5 kg</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER, ZINC POWDER -ZINC DUST (STABILIZED)), 9, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

7440-50-8	copper
7440-66-6	zinc powder -zinc dust (stabilized)
38900-29-7	Dilithium azelate

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category E1** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.*

*No special training instructions to ensure protection of human health and environment are required.*

- **purity requirement**
- **Relevant phrases**
  - H301 Toxic if swallowed.*
  - H302 Harmful if swallowed.*
  - H319 Causes serious eye irritation.*
  - H331 Toxic if inhaled.*
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Contact:**
- **Abbreviations and acronyms:**
  - Acute Tox. 4: Acute toxicity – Category 4*
  - Acute Tox. 3: Acute toxicity – Category 3*
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*
- **\* Data compared to the previous version altered.**

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