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## **COPPER ANTI SEIZE AEROSOL**

### **SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING**

- 1.1 Product Name:** Copper Anti-seize  
**1.2 Identified uses:** Anti-seize compound.  
**Uses advised against** None known.  
**1.3 Details of supplier of sds:** New Tech Lubes Ltd, Unit 3 Harrison Drive Ind Est, Worksop Notts, S81 9RL  
**E Mail (competent person)** info@newtechlubes.com  
**1.4 Emergency Telephone:** +44 (0)1909 730900 (09.00 -17.00 GMT Monday to Friday)

### **SECTION 2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance /mixture:**

**2.1.1 Regulation EC 1272/2008:**

Aerosol (cat 1) Extremely flammable  
Health STOT SE3 – H336, STOT RE1 – H372  
Aquatic chronic (cat 2) H411.

**2.2 Label elements:**

Contains: Hydrocarbons,,alkanes,aromatics (2-25%).



**Signal word(s):** Danger

**Hazard statements:**

H222 Extremely flammable aerosol  
H229 Pressurised container: may burst if heated  
H372 Causes damage to organs through prolonged or repeated exposure.  
H336 May cause drowsiness or dizziness.  
H411. Toxic to aquatic life with long lasting effects

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurised container – do not pierce or burn, even after use  
P261 Avoid breathing vapour/spray.  
P271 Use only outdoors or in well-ventilated area.

P301+310  
P410 + P412

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician  
Protect from sunlight. Do not expose to temperatures exceeding 50°C

### 2.3 Other hazards

The mixture does not contain any vPvB or PBT substances.  
Danger of bursting (explosion) when heated over 50°C.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixture:

HAZARDOUS INGREDIENTS	%W/W	CAS No EC No	REACH REG NO	HAZARD PICT/STATEMENTS
Hydrocarbon aerosol propellant (<0.1 butadiene)	10-30	68476-85-7 270-704-2	N/A	Flam gas1, H220
Hydrocarbons, C9-C12. N-alkanes, isoalkanes, cyclic,aromatics (2-25%)	20-40	– . 919-446-0	01-2119458049-33	Flam liq 3, H226 Asp tox 1, H304 STOT SE 3 H336 STOT RE 1 H372 Aq chronic 2, H411

### 3.3 Additional information

See sect 16 for full text of H phrases.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

Eyes: Remove contact lenses. Rinse with water immediately for at least 10 minutes. Obtain medical attention if any discomfort continues.

Skin: Remove severely contaminated clothing. Wash with soap and water. Obtain medical attention if any discomfort occurs.

Inhalation: Move to fresh air. Provide rest and warmth. If effects occur, obtain medical attention.

Ingestion: If swallowed, drink plenty of water. Do not induce vomiting. Obtain immediate medical attention.

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

The following symptoms may be apparent depending upon the routes of absorption as detailed in 4.1 above; skin/eye irritation, headache, nausea, dizziness, respiratory tract irritation. Ingestion –vomiting, diarrhoea, chemical pneumonitis, CNS depressant. Acute /long-term effects are further detailed in sect 11

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

Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media: Powder, alcohol resistant foam. CO2, dry chemicals.

Unsuitable extinguishing media: Water stream

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

May produce oxides of carbon and other combustion products. Danger of explosion when heated. Contents will add to fuelling of fire. Solvent vapours may form explosive mixtures with air.

### 5.3 Advice for firefighters

Wear SCBA. Keep containers cool by spraying with water. Ventilate closed spaces before entering

## SECTION 6. ACCIDENTAL RELEASE MEASURES:

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

Remove possible sources of ignition. Ensure sufficient ventilation. Wear suitable protective equipment as in Sect 8.

### 6.2 Environmental precautions.

Prevent from entering drainage systems or water courses.

### 6.3 Methods and material for containment and clearing

If spray or gas escapes, ensure plenty of fresh air / ventilation. Absorb spilled contents on inert material such as sand or earth - collect and dispose of as in Sect 13. Scrub area with detergent and water to prevent slippery residues.

### 6.4 Reference to other sections

For PPE and disposal see sections 8 and 13 respectively.

## SECTION 7. HANDLING AND STORAGE:

### 7.1 Precautions for safe handling

Only use in areas with good ventilation. Keep away from any sources of ignition including live electrics. Do not use on hot surfaces. Wash hands after use and before eating. Remove contaminated clothing.

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

Store in a cool, dry, ventilated area. Keep protected from direct sunlight and temperatures above 50°C.

### 7.3 Specific end use (s)

For anti seize / lubrication applications wherein copper complex grease is appropriate.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Workplace exposure limits

Ingredients	LTEL 8 Hr	STEL 15 min	Note
Hydrocarbon aerosol propellant ( <0.1 butadiene)	1000 ppm	1250 ppm	EH40
Hydrocarbons, C9-C12. N-alkanes cyclic,aromatics (2-25%)	350 mg/m <sup>3</sup>	–	WEL

Biological limit value - Not established

PNECs, DNELs - Not established

### 8.2 Exposure controls

**8.2.1** Appropriate engineering controls - Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

**8.2.2** Personal protective equipment:

Eye / face protection - Safety goggles/glasses if there is a risk of eye contact.

Skin protection – Nitrile gloves (EN 374). See glove manufacturer data for glove selection and breakthrough time for use conditions.

Respiratory protection – Required if exceeding airborne conc limits. Type RPE (Organic vapour)

Thermal hazards – Not applicable

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance/physical state:	Aerosol
Colour:	Copper grease
Odour:	Mild, characteristic solvent
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	< 0 <sup>0</sup> C
IBP /boiling range:	0 <sup>0</sup> C
Flash Point	<0 <sup>0</sup> C
Evaporation rate:	Not established
Flammability (gas):	Extremely flammable
Upper /lower explosive limits:	1.8 – 9.4% by volume
Vapour pressure:	Approx 3 bar at 20 <sup>0</sup> C
Vapour density:	Not established
Relative density:	Not applicable
Solubility:	Negligible water miscibility
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Viscosity:	Not applicable
Explosive properties:	Not established
Oxidising properties:	None

## SECTION 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2 Chemical Stability

Stable under proper storage and handling conditions.

### 10.3 Possibility of chemical reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Heat, flame and other ignition sources .Pressurised container: Protect from sunlight and do not Expose to temperatures exceeding 50<sup>0</sup>C. Do not pierce or burn even after use.

### 10.5 Incompatible materials

Avoid contact with strong oxidising agents

### 10.6 Hazardous decomposition products

None when used as directed.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.2. Mixtures

Acute toxicity	}	No data available
Irritation		
Corrosivity		
Sensitisation		
Repeated dose toxicity		
Carcinogenicity		
Mutagenicity		
Toxicity for reproduction		

#### Other information

May cause irritation and discomfort to eyes. Prolonged or repeated contact may cause skin irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness. Ingestion may cause irritation to mouth and cause damage to respiratory system.

#### Hydrocarbons, C9-C12. alkanes ,aromatics (2-25%)

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	15,000mg/kg	Rat	OECD 401	
Acute tox-Inhal	LC50	13mg/l	Rat	OECD 403	
Acute Tox- Derm	LD50	3400mg/kg	Rabbit	OECD 402	
Skin corrosion / Irritation				OECD 404	Not irritating
Serious eye damage / Irritation				OECD 405	May cause mild discomfort to eyes
Sensitisation – Respiratory or Skin				OECD 406	Not expected to be respiratory or skin sensitiser.
Aspiration					May be fatal if swallowed and enters airways. CNS target organ
Germ Cell Mutagenicity				OECD 471	Not expected to be germ cell mutagen.
Carcinogenicity - Oral Inhal	NOAEL	300mg/Kg >2200mg/Kg	Rat	OECD 408 OECD 453	Not expected to cause cancer
Reprod toxicity Fertility- oral Develop-inhal	NOAEL	>3000mg/Kg >300mg/Kg	Rat	OECD 415	Negative, analogous conclusion
Specific Target Organ Toxicity STOT-SE					CNS depression inc narcotic effects
STOT-repeated exposure	NOAEL	1056mg/Kg	Rat	OECD 408	

#### Hydrocarbon aerosol propellant (<0.1% Butadiene)

#### General

In low concentrations may cause narcotic effects. Symptoms include dizziness, headache, nausea and loss of co-ordination.

**SECTION 12 ECOLOGICAL INFORMATION:****Mixture****12.1 Toxicity****12.2 Persistence and degradability****12.3 Bioaccumulative potential****12.4 Mobility in soil****12.4 results of PBT and vPvB assessment****12.6 Other adverse effects.**

} No data available

**Hydrocarbons, C9-C12 alkanes, aromatics (2-25%)****12.1 Toxicity** – Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	EC50	10-22mg/l	
Aquatic -acute	72 hrs	Tetrahymena pyriformis	EC50	44mg/l	
Aquatic -acute	72 hrs	Pseudokirchneriella subcapitata	EC50	4.6-10mg/l	
Aquatic -acute	96 hrs	Oncorhynchus mykiss	LC50	10-30mg/l	
Aquatic -chronic	28days	Freshwater fish		0.13mg/l	Estimated
Aquatic -chronic	21 days	Daphnia magna	NOEC	0.28mg/l	

**12.2 Persistence and degradability** – Readily biodegradable. Transformation due to hydrolysis and photolysis not expected to be significant.

Media	Test type	Duration	Result
Water	Ready biodegradability	28 days	75% degraded

**12.3 Bioaccumulative potential** – Not appropriate.**12.4 Mobility in soil** – Not appropriate...**12.5 Results of PBT and vPvB assessment** – Contains no PBT or vPvB components**12.6 Other adverse effects** – Material is classified as a VOC.**Hydrocarbon aerosol propellant (<0.1% Butadiene)****General**

No known ecological damage.

**SECTION 13 DISPOSAL CONSIDERATIONS:****13.1 Waste Treatment Methods**

Empty containers must not be burnt or incinerated because of explosion hazard. Dispose of in accordance with local authority guidelines. Empty aerosol products may be recyclable via local authority.

**SECTION 14. TRANSPORT INFORMATION:**

<b>14.1 UN number</b>	1950
<b>14.2 UN proper shipping name</b>	Aerosols
<b>14.3 Transport hazard class</b>	2 (UN / IMDG)
<b>ADR Classification code</b>	5F
<b>14.4 Packing group</b>	None
<b>14.5 Environmental hazards</b>	Not applicable

**SECTION 15. REGULATORY INFORMATION:**

**15.1 Safety, health and environmental regulations/legislation specific for the mixture**

REACH - 1907/2006  
CLP - 1272/2008  
DPD - 199/45/EC  
COSHH - 2002 (as amended)

**15.2 Chemical safety assessment**

A CSA has not been carried out for this mixture.

**SECTION 16. OTHER INFORMATION:**

**Legend**

LTEL	Long term exposure limit
STEL (SE)	Short term exposure limit (Single exposure)
STOT	Specific target organ toxicity
PNEC	Predicted no effect concentration
DNEL	Derived no effect level

**Hazard statements –referred to in sect 3**

H220	Extremely flammable gas
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways

**Classification methods used to derive classification of mixture**

Classification according to calculation procedure detailed in EC1272/2008

**Additional information**

This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.