

MATERIAL SAFETY DATA SHEET

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Product Name: **SEALXPERT® COPPER ANTI-SEIZE COMPOUND**
MSDS No: 169

Revision No: 0

Issued by: Yogesh
Issue Date: 15 October 2015

Section 1 – Company Details

Company Name: SealXpert Products
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Section 2 – Composition

Ingredient	CAS NO.	Content (Wt%)
Solvent refined mineral oil	64742-65-0	40-70
Hydrated magnesium silicate	14807-96-6	15-40
Copper	7440-50-8	7-13
Dialkyldimethylammonium bentonite	68953-58-2	1-5

Section 3 – Hazardous Identification

Emergency overview: Copper colored semi-solid. Oily hydrocarbon odor. Caution! Harmful if inhaled or swallowed. Inhalation of fumes from heated product could cause metal fume fever, a flu-like illness. May cause respiratory tract irritation. Prolonged or repeated contact may dry skin and cause irritation. Contains material which can cause lung damage following repeated inhalation. Contains material which can cause adverse liver and kidney effects.

Potential health effects:

Target organs: Eyes, skin, respiratory system, digestive system, liver, kidneys.

Routes of exposure: Skin contact, eye contact, inhalation, ingestion.

Signs and symptoms of short-term (acute) exposure:

Inhalation: If this product is heated, or dusts and/or mists are formed, inhalation may cause irritation to the nose, throat and upper respiratory tract. Symptoms may include shortness of breath, sneezing and coughing. Fumes from heated product may cause metal fume fever, a flu-like illness causing symptoms which include fever, a metallic taste in the mouth, nausea, coughing and muscle aches.

Skin: Direct skin contact causes little or no irritation. Could cause a greenish-black discoloration of the skin.

Eyes: Direct eye contact may cause mild irritation. Symptoms may include tearing, blinking and pain.

Ingestion: Ingestion may cause irritation in the mouth, throat and stomach. Symptoms may include nausea, vomiting, abdominal pain and diarrhea. Ingestion of larger amounts could cause jaundice, liver damage and kidney damage.

Chronic effects: Repeated or prolonged skin exposure may result in drying and defatting of the skin (possible dermatitis). If dusts are formed, repeated inhalation can cause chronic respiratory disease (pneumoconiosis) and/or scarring of lung tissue (fibrosis). Symptoms of lung disease may include coughing, increase phlegm production and shortness of breath.

Conditions aggravated by exposure: Pre-existing skin, eye and respiratory disorders.

Section 4 – First Aid Measures

Eye contact: Immediately flush eyes with running water for a minimum of 10 to 15 minutes. Obtain medical attention if irritation develops and persists.

Skin contact: Wash skin thoroughly with mild soap and running water, while removing contaminated clothing. Obtain medical attention if irritation develops and persists. Launder clothing before reuse.

Inhalation: Immediately remove person to fresh air. If breathing is difficult, oxygen may be administered by qualified personnel. Obtain medical attention.

Ingestion: If swallowed, do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious or convulsing person.

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Section 5 – Fire Fighting Measures

Fire hazards/conditions of flammability:	Not considered flammable. However, product may be combustible if exposed to extreme heat and direct flame. Closed containers may build up pressure when exposed to heat.
Flammability classification:	Non-flammable.
Flash point (Method):	>200oC / 392oF (PMCC)
Auto-ignition temperature:	N/A
Lower flammable limit (% by vol.):	N/A
Upper flammable limit (% by vol.):	N/A
Explosion data:	
Sensitivity to mechanical impact / static discharge:	Not expected to be sensitive.
Oxidizing properties:	None known.
Suitable extinguishing media:	Use media suitable to the surrounding fire, such as foam, carbon dioxide, dry chemical or water fog. Do not use water jet, as this may spread burning material.
Special fire-fighting procedures/equipment:	Do not enter fire area without proper protection. Fire-fighters should wear full protective clothing and a NIOSH approved self-contained breathing apparatus, with a full-face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment exposed to heat and flame.
Hazardous combustion products:	Carbon oxides, nitrogen oxides, sulfur oxides, phosphorous oxides, copper oxides and other irritating fumes and smoke.

Section 6 – Accidental Release Measures

Personnel precautions:	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Use caution during clean-up procedures. Spilled product presents a significant slip hazard.
Environmental precautions:	Ensure any spilled material does not enter drains, sewers, waterways or confined spaces.
Spill cleanup measures:	Eliminate all sources of heat, sparks and flame. Ventilate area of release. Stop leak if you can do so without risk. Cover spilled material with non-combustible absorbent material (such as vermiculite), then shovel material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Section 7 – Handling and Storage

Handling:	Wear protective equipment during handling. Use in a well ventilated area. Avoid inhaling fumes and dusts or mists. Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Keep away from heat and flame. Keep away from acids and incompatibles. Avoid and control operations which create dusty conditions. Keep container closed when not in use. Assume empty containers contain residues, which are hazardous. Launder contaminated clothing before reuse.
Storage:	Store in a cool, dry, well-ventilated area away from sources of heat and flame. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Special packaging materials:	Always keep in containers made of the same materials as the supply container.
Hygiene practices:	Wash thoroughly after handling.

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Section 8 – Exposure Controls / Personal Protection

Ventilation and engineering controls: Use adequate ventilation to maintain air contaminants below exposure limits. Local and/or general exhaust may be required

Eye protection: Use safety glasses with side shields or chemical splash goggles.

Skin protection: Protective gloves impervious to the material may be worn during prolonged use. Confirmation of what type of material is most suitable for the intended application, should be obtained from glove suppliers. An eyewash station and safety shower should be made available in the immediate working area.

Respiratory system protection: Respiratory protection is required if the airborne concentration exceeds the TLV or is not known. Wear NIOSH-approved respirators. Advice should be sought from respiratory protection specialists.

General hygiene considerations: Do not inhale fumes and dusts or mists. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Section 9 – Physical and Chemical Characteristics

Physical state, odor and appearance: Copper colored, semi-solid paste. Oily hydrocarbon odor.

Evaporation rate (n-Butyl acetate = 1): N/A

Odor threshold: N/A

Specific gravity: 1.13

Solubility in water: Insoluble

Vapor pressure: N/A

Vapor density (Air = 1): N/A

Boiling point: N/A

Melting / Freezing point: -9°C / 16°F

pH: N/Av

Coefficient of water/oil distribution: N/A

Volatiles (% by weight): N/A

Section 10 – Stability and Reactivity

Stability: Stable under the recommended storage and handling conditions.

Hazardous polymer: Will not occur.

Incompatibility materials: Strong oxidizers (e.g. Chlorine, Peroxides, etc.), strong acids.

Conditions to avoid: Avoid heat, direct flame and contact with incompatible materials.

Section 11 – Toxicological Information

Health hazard: Refer to section 3

Sensitization: Not known

Mutagenicity: Not known

Procreation transmissibility: Not known

Carcinogenicity: Not known

Other health hazard information: Unavailable

Section 12 – Ecological Information

Environmental effect and distribution: Not known

Environmental influence: Not known

Biology accumulation: Not known

Section 13 – Disposal Considerations

Special instructions: Observe all federal, state and local laws and regulations.

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Section 14 – Transportation Information

Transportation: Not classified as Dangerous Goods and can be transported by Road, Rail and Air.
The item is not restricted or not regulated as per IATA

Section 15 – Regulatory Information

Observe the governmental or local regulations to use the product safely.

Section 16 – Other Information

Discard contaminated clothing immediately. Maintain clean equipment and work areas. Avoid inhalation of fumes. Wipe up spills immediately.

Warning to users:

This data sheet completes the technical notices but does not supersede them. The information contained in it is grounded to the statement of our knowledge of the product concerned at the publishing date.

Moreover, user's attention should be drawn on the possible risks incurred when a product is used for other purposes than those for which it has been designed. It does not stop in any case the user knowing and following the whole regulatory texts related to his activity. He will be the sole responsible of the precautions related to the use of the products he knows.

The aim of the whole regulatory prescriptions mentioned is to help the receiver to fulfill his duties when using the product. This list must not be considered as exhaustive. It does not stop the user from making sure that he complies with the written obligations other than those previously cited and which rule the fact of keeping and using the product for which he is the sole responsible person.