

Material Safety Data Sheet

PERMABOND ANTI-SEIZE

Revision Number: 2 Issue date: 03/16/12

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: PERMABOND ANTI-SEIZE Telephone: 732-868-1372

Product type: Lubricant

Company: PERMABOND LLC

14 Robinson Street Emergency Telephone:
Pottstown, PA 19464 Medical: 866-827-6282
USA Transport: 1-800-640-7599

Website: www.permabond.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:PasteHEALTH:1Color:GreyFLAMMABILITY:1Odor:MildPHYSICAL HAZARD:0

Personal Protection: See Section 8

CAUTION: MAY CAUSE EYE AND SKIN IRRITATION

Relevant routes of exposure: Skin and Eyes

Potential Health Effects

Inhalation: Under normal conditions of use it is not likely to irritate respiratory track

because of its low volatility.

Skin contact: Prolonged or repeated contact may cause irritation.

Eye contact: Contact with eyes will cause irritation.

Ingestion: May cause gastrointestinal tract irritation, nausea, vomiting and

diarrhea. The principal hazard of ingestion is aspiration of the material

into the lungs which could lead to pneumonitis.

Existing conditions aggravated by Skin, eye and respiratory disorders.

exposure:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.



3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous componentsCAS NUMBERCONCENTRATION (%)Copper, as dust or fume7440-50-820-30Aluminum, as dust or fume7429-90-55-8Petroleum oil64742-65-040-60

4. FIRST AID MEASURES

Inhalation:

Not likely under normal conditions of use. If using in high temperature

applications where thermal decomposition is likely, use local exhaust to keep exposure to below exposure limits. If dizziness or irritation occurs, move to fresh air. If symptoms persist, get medical attention. Wash with soap and water. Remove contaminated clothing and

Skin contact: Sk

occur.

Eye contact:

Flush with plenty of water, preferably, lukewarm water for at least 15

minutes, holding eyelids open all the time. Get medical attention. Do not induce vomiting. Aspiration may cause pulmonary edema and

Ingestion: pneumonitis. Keep individual calm and get medical attention. Never

give anything by mouth to an unconscious person. Get medical

attention.

5. FIRE-FIGHTING MEASURES

Flash point: >176.7°C (350°F) C.O.C.

Auto ignition temperature: Not available Flammable/Explosive limits-lower %: Not available Flammable/Explosive limits-upper %: Not available

Extinguishing media:

Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: This material will not burn unless it is pre-heated. Water fog maybe

used to cool the container but do not spray directly into large containers of burning liquids as frothing may occur. Wear N.I.O.S.H.

approved organic vapor respirator

Unusual fire or explosion hazards: None expected. Dense smoke and noxious or toxic fumes maybe

generated in a fire. Fire fighters should wear self contained breathing

apparatus.

Hazardous combustion products: Oxides of carbon. Irritating organic vapors.



6. ACCIDENTAL RELEASE MEASURES

Use personal protection equipment recommended in section 8, isolate the hazard area and deny entry to unnecessary unprotected individuals.

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Dispose in a responsible manner. Follow, local, state and federal

guidelines for disposal. Scrape as much residue as possible and return

to container. Clean residue with soap and water.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Wash thoroughly after

handling.

Storage: Keep in a cool well ventilated area. Store away from strong oxidizers,

extreme heat, or open flames. For safe storage, store between 5°C

and 25°C (41°F and 77°F) in unopened container.

Incompatible products: Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employees should complete an assessment of all workplaces to determine the need for and selection of proper exposure controls and protective equipment before each task is started.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Copper	1 mg/m ³ TWA (as Cu) Dust and mist. 0.2 mg/m ³ TWA fume.	1 mg/m³ TWA (as Cu) Dust and mist. 0.1 mg/m³ TWA fume	None	None
Aluminum	1 mg/m ³ TWA Respirable fraction	15 mg/m³ TWA (as Al) Total dust and mist. 5 mg/m³ TWA (as Al) Respirable dust	None	None
Petroleum oil	None	None	None	None

No specific ventilation requirements noted, but forced ventilation may still be necessary if concentrations exceed established exposure

limits; especially in high temperature applications.

Engineering controls:



Respiratory protection: Use NIOSH approved respirator if there is potential to exceed

exposure limit(s).

Skin protection: Use impermeable gloves and protective clothing as necessary to

prevent skin contact.

Eye/face protection: Safety goggles or safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Gray
Odor: Mild

Odor Threshold:Not availableVapor pressure:Not availablepH:Not available

Boiling point/range: Greater than 371.1°C (700°F)

Melting point/range: Not available

Specific gravity: 1.2

Vapor density:Not availableFlash Point:>176.7 °C (350°F)Flammable/Explosive Limits (lower)Not availableFlammable/Explosive Limits (upper)Not Available

Evaporation rate: 0
Solubility in water: Nil

Partition coefficient (n- Not available

octanol/water): VOC content:

41.4 grams/liter

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Irritating vapors.

Incompatibility: Strong oxidizing agents, strong acids, strong bases.

Conditions to avoid: Heat. Keep away from incompatible materials



11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Copper	No	No	No
Aluminum, dust or fume	No	No	No
Petroleum oil	No	No	No

Hazardous components	Health Effects/Target Organs
Copper	Allergen, Blood, Central nervous system, Developmental,
	Gastrointestinal, Immune system, Kidney, Liver, İrritant, Mutagen, Sensory, Skin
Aluminum, dust or fume	Central nervous system, Lung, Immune system, Irritant
Petroleum oil	Allergen, irritant

12. ECOLOGICAL INFORMATION

Ecological information: Copper is considered a marine pollutant. It should not be

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental

regulations.

EPA hazardous waste number:Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipment information in this section is for non-bulk packaging. Shipping classification might be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated

Hazard class or division:
Identification number:
Packing group:
None

DOT Reportable quantity: Copper is reportable at 5000 lb (2700 Kg)

Marine Pollutant: Copper

International Air Transportation (ICAO/IATA):

Proper shipping name: Unrestricted

Hazard class or division:
Identification number:
None
Packing group:
None



Water Transportation (IMO/IMDG):

Proper shipping name: Environmentally hazardous substance, liquid, n.0.s. (copper)

Hazard class or division: 9

Identification number:UN 3082Packing group:IIIMarine pollutant:Copper

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the

Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification:

CERCLA/SARA Section 302 EHS:

None above the reporting limits.

None above the reporting limits.

CERCLA/SARA Section 311/312: Immediate Health Hazard

CERCLA/SARA 313: This product contains the following toxic chemicals subject to

the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Copper (CAS# 7440-50-8) and Aluminum not powder,

dust or fumes (CAS# 7429-90-5).

California Proposition 65: This product does not contain a chemical known to the State of

California to cause cancer and birth defects or other

reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the

Domestic Substances List.

WHMIS hazard class: Not controlled

16. OTHER INFORMATION

This MSDS was reviewed and released with new date 03/16/12

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.