



Safety Data Sheet

PERMABOND ANTI-SEIZE

Issue date: 05/05/15

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:PERMABOND ANTI-SEIZEProduct Type:Anti-seize compound

Company: PERMABOND LLC 14 Robinson Street Pottstown, PA 19464 USA

Revision Number: 4

Telephone: 732-868-1372 or 800-640-7599 Website: www.permabond.com

Emergency Telephone:

Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Not Hazardous in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazardous Phrases:	None
Precautionary Statements:	None
Disposal:	Dispose of according to Federal, State/Provincial and local governmental regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS NUMBER	CONCENTRATION (%)*
Copper	7440-50-8	15 – 30
Distillates (petroleum, hydrogenated heavy naphthenic	64742-52-5	15 – 30
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	15 – 30
Graphite	7782-42-5	10 – 20
Aluminum	7429-90-5	5 – 8

*Exact concentration is a trade secret. Concentration ranges are provided to assist user in determining appropriate protection.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).



4. FIRST AID MEASURES		
Inhalation:	Move to fresh air. Keep comfortable for breathing. If irritation occurs get medical attention.	
Skin contact:	Wash thoroughly with soap and water. Get medical attention if irritation persists.	
Eye contact:	Flush with large amounts of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion:	If large amounts are ingested, seek medical attention.	
Symptoms:	See section 11	

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and protective clothing. In case of fire keep container cool with water spray.
Unusual fire or explosion hazards:	Hazardous decomposition may generate oxides of carbon.
Hazardous combustion products:	Toxic and/or irritating organic vapors may be generated. Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions:	Prevent product from entering drains or waterways.
Clean-up methods:	Because of its viscous nature, this product is not expected to leak or spill. In case it does, collect spill using an inert absorbent material and place in suitable container for disposal. Clean area thoroughly with mineral spirits. Refer to section 8 (Exposure Controls/ Personal Protection) before clean up.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes. Avoid prolonged skin contact. Wash thoroughly after handling. Keep container tightly closed.
Storage:	Store away from extreme heat and open flames. Store away from concentrated oxygen.
	For shelf life information contact Permabond customer service at (800) 714-0170



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/m3 TWA	1 mg/m3 TWA	None	None
Distillates (petroleum), hydrogen heavy naphthenic	ated 5 mg/m3 TWA (inhalable)	5 mg/m3 TWA	None	None
Distillates (petroleum), solvent- dewaxed heavy paraffinic	5 mg/m3 TWA (inhalable)	5 mg/m3 TWA	None	None
Graphite	5 mg/m3 TWA (respirable)	15 mg/m3 TWA (total dust) 5 mg/m3 TWA (respirable fraction)	None	None
Aluminum	1 mg/m3 TWA (respirable)	15 mg/m3 TWA (total dust) 5 mg/m3 TWA (respirable fraction)	None	None
Engineering controls:	Use local ventilation to maintain	n worker exposure below	established exposure limi	its.
Respiratory protection:	Use NIOSH approved respirato	or if there is potential to ex	ceed exposure limit(s).	

Skin protection:Use chemical resistant/ impermeable gloves and protective clothing to prevent skin contact.Eye/face protection:Safety goggles or safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Silver-grey
Odor: Odor threshold: pH: Vapor pressure:	Mild petroleum Not Available Neutral Not available
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.2
Vapor density: Flash point: Flammable/Explosive limits – Lower: Flammable/Explosive limits – Upper: Autoignition Temperature: Evaporation rate:	Not available >177°C (350°F) Not available Not available Not available Not available Not available
Solubility in water:	Not soluble
Partition coefficient (n-octanol/water): Decomposition temperature: VOC content:	Not available Not available <0.2 %, 2 grams/liter (Estimated)



10. STABILITY AND REACTIVITY

Stability:	Stable when stored under the recommended storage conditions
Hazardous reactions:	None under normal processing conditions. In the presence incompatible materials or high temperature polymerization may occur.
Hazardous decomposition products:	Oxides of carbon.
Incompatible materials:	Concentrated oxygen.
Conditions to avoid:	Avoid strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation and metal fume fever with symptoms of fever and chills.
Skin contact:	Prolonged contact may cause irritation and drying of the skin.
Eye contact:	May cause mild eye irritation.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous components	LD50	LC50	Immediate and Delayed Health Effects
Copper	Oral LD50 (Rat) = 2,500 mg/Kg Dermal LD50 (Rat) >2,000 mg/Kg	Inhalation LC50 (Rat) 5.11 mg/L	None
Distillates (petroleum), hydrogenated heavy naphthenic	Oral LD50 (Rat) = 5,000 mg/Kg Dermal LD50 (Rabbit) >2,000 mg/Kg	Inhalation LC50 (Rat) 2.18 mg/L	Irritant
Distillates (petroleum), solvent- dewaxed heavy paraffinic	Oral LD50 (Rat) = 5,000 mg/Kg Dermal LD50 (Rabbit) >2,000 mg/Kg	Inhalation LC50 (Rat) 2.18 mg/L	Irritant
Graphite	Oral LD50 (Rat) = 2,000 mg/Kg	Inhalation LC50 (Rat) >2 mg/L	None Known
Aluminum	Oral LD50 (Rat) = 15,900 mg/Kg	Inhalation LC50 (Rat) >0.888 mg/L	None known

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Copper	No	No	No
Distillates (petroleum), hydrogenated heavy naphthenic	No	No	No
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	No	No
Graphite	No	No	No
Aluminum	No	No	No



12. ECOLOGICAL INFORMATION

Ecological information:

Not Available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State/Provincial and local governmental regulations. Refer to section 8 (Exposure Controls/Personal Protection) before handling.

14. TRANSPORT INFORMATION

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

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Exceptions:

Not regulated None None None None

International Air Transportation (ICAO/IATA):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
Exceptions:	None

Water Transportation (IMO/IMDG):

Proper shipping name:	
Hazard class or division:	
Identification number:	
Packing group:	

Not regulated None None None None

Marine pollutant:

SDS PERMABOND ANTI-SEIZE_Rev4



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:	None above the reporting limits.
CERCLA/SARA Section 302 EHS:	None above the reporting limits.
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire, Reactive
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). Aluminum (CAS# 7429-90-5).
CERCLA Reportable quantity:	
California Proposition 65:	No chemical listed on the California Proposition 65 are known to be present.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous one: New format

Issue Date: 05/05/15

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.