

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	PRODUCT NAME:	Cu-2000HT
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	PRODUCT CODE:	1708
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	PRODUCT USE:	Copper Anti-Seize
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	SDS FILE ID:	1708.01
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2026-07-01

SECTION 2: HAZARDS IDENTIFICATION

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

GHS Classification: Aquatic Hazard (Acute) – Category 1
Aquatic Hazard (Long-Term) – Category 1

Label elements:



Signal word

Warning

Hazard statements

H410 – Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention

P273 – Avoid release to the environment

Response

P391 – Collect spillage

Storage

Not applicable

Disposal

P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

None Known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Mixture	
Ingredient Name	CAS #	%
Copper	7440-50-8	1-5
Crystalline silica, respirable powder	14808-60-7	0.1-1

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

There are no additional ingredients present which, within the current knowledge of the supplier and in concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye Contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Protective equipment and precautions for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides.
Special protective actions for fire-fighters	No special measures are required.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for containment and cleaning up	
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up materials and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	
Ingredient name	Exposure limits
Copper	ACGIH TLV (United States, 3/2016). TWA: 1 mg/m ³ 8 hours. Form: Dust and mist TWA: 0.2 mg/m ³ 8 hours. Form: Fertilizer and/or industrial use. NIOSH REL (United States, 10/2013). TWA: 1 mg/m ³ , (as Cu) 10 hours. Form: Dusts and mists OSHA PEL (United States, 6/2016). TWA: 1 mg/m ³ 8 hours. Form: Dusts and mists TWA: 0.1 mg/m ³ 8 hours. Form: Fertilizer and/or industrial use.
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, then protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Semi-solid
Color	Copper
Odor	Mild
Odor Threshold	Not available
pH	Not available
Melting point	Not available
Boiling point	Not available
Flash point	Open cup: 215.56°C (420°F) [Cleveland]
Evaporation rate	Not available
Flammability (solid, gas)	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.32 g/ml
Solubility	Insoluble in the following materials: cold water and hot water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Flow time (ISO 2431)	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Do not heat above flash point.
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	There is no data available.
Irritation/Corrosion	There is no data available.

Sensitization	There is no data available.		
Mutagenicity	There is no data available.		
Carcinogenicity			
Product/ingredient name	OSHA	IARC	NTP
Crystalline silica, respirable powder		1	Known to be a human carcinogen
Reproductive toxicity	There is no data available.		
Teratogenicity	There is no data available.		
Specific target organ toxicity (single exposure)	There is no data available		
Specific target organ toxicity (repeated exposure)			
Product/ingredient name	Category	Target organs	
Crystalline silica, respirable powder	Category 1	Respiratory tract	
Aspiration hazard	There is no data available.		
Information on the likely routes of exposure	Ingestion		
Potential acute health effects			
	Eye contact	No known significant effects or critical hazards.	
	Inhalation	No known significant effects or critical hazards.	
	Skin contact	No known significant effects or critical hazards.	
	Ingestion	No known significant effects or critical hazards.	
Symptoms related to the physical, chemical and toxicological characteristics			
	Eye contact	No known significant effects or critical hazards.	
	Inhalation	No known significant effects or critical hazards.	
	Skin contact	No known significant effects or critical hazards.	
	Ingestion	No known significant effects or critical hazards.	
Delayed and immediate effects and also chronic effects from short and long term exposure			
	Short term exposure potential immediate effects	No known significant effects or critical hazards.	
	Short term exposure potential delayed effects	No known significant effects or critical hazards.	
	Long term exposure potential immediate effects	No known significant effects or critical hazards.	
	Long term exposure potential delayed effects	No known significant effects or critical hazards.	
Potential chronic health effects			
	General	No known significant effects or critical hazards.	
	Carcinogenicity	No known significant effects or critical hazards.	
	Mutagenicity	No known significant effects or critical hazards.	
	Teratogenicity	No known significant effects or critical hazards.	
	Developmental effects	No known significant effects or critical hazards.	
	Fertility effect	No known significant effects or critical hazards.	
Numerical measures of toxicity-Acute toxicity estimates			
Route	ATE value		
Oral	140611.2 mg/kg		

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
Copper	Acute EC50 1100 µg/L Fresh water	Aquatic plants – Lemna minor	4 days
	Acute EC50 2.1 µg/L Fresh water	Daphnia – Daphnia longispina – Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 13 µg/L Fresh water	Algae – Pseudokirchneriella subcapitata – Exponential growth phase	72 hours
	Acute IC50 5.4 mg/L Marine water	Aquatic plants – Plantae – Exponential growth phase	72 hours
	Acute LC50 0.072 µg/L Marine water	Crustaceans – Amphipoda – Adult	48 hours
	Chronic NOEC 2.5 µg/L Marine water	Fish – Periophthalmus waltoni – Adult	96 hours
	Acute LC50 7.56 µg/L Marine water	Algae – Nitzschia Closterium – Exponential growth phase	72 hours
	Chronic NOEC 7 mg/L Fresh water	Aquatic plants – Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/L Fresh water	Crustaceans – Cambarus bartonii – Mature	21 days
	Chronic NOEC 2 µg/L Fresh water	Daphnia – Daphnia magna	21 days
	Chronic NOEC 0.8 µg/L Fresh water	Fish – Oreochromis niloticus – Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

Persistence and degradability	There is no data available.
Bioaccumulative potential	There is no data available.
Mobility in soil-Soil/water partition coefficient (Koc)	Not available
Other adverse effects	No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers
------------------	--

SECTION 14: TRANSPORT INFORMATION

DOT

UN Number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
Transport hazard class(es)	9  
Packing group	III
Environmental hazards	Yes

TDG	
UN Number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
Transport hazard class(es)	9
	 
Packing group	III
Environmental hazards	Yes
IMDG	
UN Number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)
Transport hazard class(es)	9
	 
Packing group	III
Environmental hazards	Yes
IATA	
UN Number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
Transport hazard class(es)	9
	 
Packing group	III
Environmental hazards	Yes
Additional information	
DOT Classification	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
TDG Classification	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IATA	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the even of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

This product does not dry or produce dust under normal use. Since the product is in paste/grease form, the risk of exposure to dust is minimal or non-existent and the related hazard statements are therefore not shown in the SDS even if some hazardous ingredients are listed in this Section for other regulatory requirements.

US Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA 12(b) one-time export: None of the components are listed.
TSCA 12(b) annual export notification: None of the components are listed.
Clean Water Act (CWA) 307: Copper

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

Listed

Clean Air Act Section 602 Class I Substances

Not listed

Clean Air Act Section 602 Class II Substances

No listed

DEA List I Chemicals (Precursor Chemicals)

Not listed

DEA :List II Chemicals (Essential Chemicals)

Not listed

Sara 302/204 Composition/information on ingredients

No products were found

SARA 304 RQ

Not applicable

SARA 311/312 Classification

Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition/Information on ingredients

Name

Crystalline silica, respirable powder

Classification

CARCINOGENICITY – Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) – Category 1

SARA 313

	Product name	CAS number
Form R Reporting requirements	Copper	7440-50-8
Supplier notification	Copper	7440-50-8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State Regulations

Massachusetts

The following components are listed: Distillates (petroleum), solvent-refined heavy naphthenic; Distillates (petroleum), hydrotreated light naphthenic; Limestone; Hydrous magnesium silicate; Copper

New York

The following components are listed: Copper

New Jersey

The following components are listed: Graphite, natural; Distillates (petroleum), solvent-refined heavy naphthenic; Distillates (petroleum), hydrotreated light naphthenic; Limestone; Crystalline silica, respirable powder; Hydrous magnesium silicate; Copper

Pennsylvania

The following components are listed: Limestone; Crystalline silica, respirable powder; Hydrous magnesium silicate; Copper

California Prop 65



Warning: This product can expose you to Crystalline silica, respirable powder, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS)

HMIS-RATING:	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

AQUATIC HAZARD (ACUTE) – Category 1

Calculation method

AQUATIC HAZARD (LONG-TERM) – Category 1

Calculation method

Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.*

End of SDS