

SAFETY DATA SHEET Solution 2000 Premium Copper Anti-Seize

1. PRODUCT AND COMPANY IDENTIFICATION		
Product Code:	L-12960	
Product Name:	Solution 2000 Premium Copper Anti-Seize	
Company Name:	MRO Solutions, LLC	Phone Number:
	5645 W. Howard St.	+1 (847)588-2480
	Niles, IL 60714	
Web site address:	http://www.mrosolutions.com/	
Emergency Contact:	CHEMTREC	+1 (800)424-9300

2. HAZARDS IDENTIFICATION

Specific Target Organ Toxicity (single exposure), Category 3 Specific Target Organ Toxicity (repeated exposure), Category 1



	Damman		
GHS Signal Word:	Danger		
GHS Hazard Phrases:	H335 - May cause respiratory irritation.		
	H372 - Causes damage to organs (lungs) through prolonged or repeated exposure.		
GHS Precaution Phrases:	P201 - Obtain special instructions before use.		
	P202 - Do not handle until all safety precautions have been read and understood.		
	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.		
	P264 - Wash hands thoroughly after handling.		
	P270 - Do not eat, drink or smoke when using this product.		
	P280 - Wear protective gloves/protective clothing/eye protection.		
GHS Response Phrases:	P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position		
-	comfortable for breathing. P314 - Get medical attention/advice if you feel unwell.		
	P308+313 - IF exposed or concerned: Get medical attention/advice.		
	P312 - Call a POISON CENTER or doctor/physician if you feel unwell.		
GHS Storage and Disposal	P403+233 - Store container tightly closed in well-ventilated place. P501 - Dispose of		
Phrases:	contents and containers in accordance with local, regional, national, and international		
	regulations.		
Hazard Rating System:	Flammability		
	Health		
	NFPA: Special Hazard		
Potential Health Effects	Preexisting pulmonary and dermatological disorders may be aggravated by exposure to		
(Acute and Chronic):	hazardous components. Repeated or prolonged inhalation of graphite or carbon dusts		
	may cause pulmonary fibrosis, emphysema, and pneumoconiosis. The severity of these		
	offente in anothe influence of heaters of others, he made a second deater another heaters		
	effects is greatly influenced by the presence of other harmful mineral dusts, most notably		
	crystalline silica. This product contains encapsulated metal powder containing copper		
	crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable		
	crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable silica is anticipated during normal use of this product. Inhalation of free, respirable silica		
	crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable silica is anticipated during normal use of this product. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Metal powder and/or silica may		
	crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable silica is anticipated during normal use of this product. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Metal powder and/or silica may be released by grinding or machining of cured compound or coated materials. Repeated		
	crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable silica is anticipated during normal use of this product. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Metal powder and/or silica may		

grinding or machining coated items.

May cause irritation to the respiratory tract. Inhalation of dusts at levels above

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	recommended exposure limits may cause a metallic or sweet ta	ste.			
Skin Contact:	May cause mild skin irritation. Prolonged and/or repeated contac and/or dermatitis.	ct may cause irritation			
Eye Contact:	Dust may cause mechanical irritation. May cause tearing, redne result in corneal injury.	ss, and swelling. May			
Ingestion:	No hazard expected in normal industrial use. May be harmful if s gastrointestinal irritation with nausea, vomiting and diarrhea.	swallowed. May cause			
3. CC	3. COMPOSITION/INFORMATION ON INGREDIENTS				
CAS # Hazardous Con	nponents (Chemical Name) Concentration				

CAS #	Hazardous Con	nponents (Chemical Name)	Concentration
64742-52-5	Aliphatic petrole	um distillate	60.0 %
7782-42-5	Graphite		17.0 %
112945-52-5	Silica, amorphou	us treated	1.00 %
7440-50-8	Copper		21.0 %
4. FIRST All		4. FIRST AI	D MEASURES
Emergency a Procedures:	nd First Aid		
In Case of Inhalation:		Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid.	
clot		Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing separately before reuse.	
lower eyelid		lower eyelids. Remove cont	ater for at least 15 minutes, occasionally lifting the upper and act lenses, if present and easy to do after 5 minutes and ional 15 minutes. Get medical aid.
In Case of Ingestion: Do NOT indu water. Never		•	victim is conscious and alert, give 2-4 cupfuls of milk or by mouth to an unconscious person. Get medical aid control center.
Signs and Symptoms Of Symptoms may not be re Exposure:		Symptoms may not be read	ily apparent. Get medical advice/attention.
Note to Phys	ician:	Treat symptomatically and s attendance.	supportively. Show this safety data sheet to the doctor in
		5. FIRE FIGHT	ING MEASURES

325 F (163 C) Method Used: Cleveland Open Cup			
LEL: No data. UEL: No data.			
No data.			
Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. If water is used, fog nozzles are preferred.			
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire. Use water spray to keep fire-exposed containers cool.			
High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.			



6. ACCIDENTAL RELEASE MEASURES		
Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.	
Environmental Precautions:	Do not empty into drains. Material that cannot be recovered or reused should be disposed of in accordance with all Federal, State and Local regulations.	
Steps To Be Taken In Case Material Is Released Or Spilled:Spills/Leaks: Provide ventilation. Avoid breathing vapors, mist or gas. Remove all s of ignition. Sweep up or absorb material, then place into a suitable clean, dry, close container for disposal.		
7. HANDLING AND STORAGE		
Precautions To Be Taken in Handling:	Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.	
	Do not reuse empty containers without first having them commercially cleaned or reconditioned. Follow all SDS/label precautions even after container is emptied because they may retain product residues.	
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from heat. Store in a tightly closed container. Keep container closed when not in use.	
Other Precautions:	Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64742-52-5	Aliphatic petroleum distillate	No data.	No data.	No data.
7782-42-5	Graphite	PEL: 532.5 ppm/15 mppcf	TLV: 2 mg/m3 (resp. except fibers)	No data.
112945-52-5	Silica, amorphous treated	No data.	No data.	No data.
7440-50-8	Copper	PEL: 0.1 (fume)/ 1.0 (dust)	TLV: 0.2 mg/m3 (fume) 1 mg/m3(dust/mist)	No data.

Respiratory Equipment (Specify Type):	Not required under normal use conditions. Avoid breathing vapors or dusts. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.
Eye Protection:	Safety glasses, chemical goggles, and/or face shield should be worn.
Protective Gloves:	Not required under normal use conditions. Solvent resistant gloves required for prolonged or repeated contact.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.
Engineering Controls (Ventilation etc.):	Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygienic/Maintenance Practices:	General industrial hygiene practice.



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9.	PHYSICAL AND CHEMICAL PROPERTIES		
Physical States:	[]Gas []Liquid [X]Solid		
Appearance and Odor:	Appearance: Copper-colored. Paste.		
	Odor: Slight. Petroleum-like.		
Melting Point:	NA		
Boiling Point:	500 F (260 C)		
Autoignition Pt:	No data.		
Flash Pt:	325 F (163 C) Method Used: Cleveland Open Cup		
Explosive Limits:	LEL: No data. UEL: No data.		
Specific Gravity (Water = 1):	1.24		
Density:	NA		
Vapor Pressure (vs. Air or	No data.		
mm Hg):			
Vapor Density (vs. Air = 1):	Heavier than air		
Evaporation Rate:	Slower than ether		
Solubility in Water:	Nil		
Percent Volatile:	No data.		
	10. STABILITY AND REACTIVITY		
Ctobility:			
Stability:	Unstable [] Stable [X]		
Conditions To Avoid - Instability:	High temperatures, Incompatible materials.		
Incompatibility - Materials To	Strong oxidizing agents, Strong acids, Strong bases, nitrates, nitrite, chlorinated		
Avoid:	hydrocarbons, magnesium, chlorides. diborane. palladium. selenium. manganese.		
	potassium chlorate. sodium carbonate. sulfates.		
Hazardous Decomposition or Byproducts:	or High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.		
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]		
Conditions To Avoid -	No data available.		
Hazardous Reactions:			
	11. TOXICOLOGICAL INFORMATION		
Toxicological Information:	Epidemiology: No information available.		
	Teratogenicity: No information available.		
	Reproductive Effects: No information available.		
	Mutagenicity: No information available.		
	Neurotoxicity: No information available.		
	Other Studies: CAS # 112945-52-5:		
	Acute toxicity, LD50, Oral, Rat, 3160 mg / kg.		
	Other Studies: CAS# 7440-50-8:		
	Acute toxicity, LD50, Oral, Mouse, 413 mg / kg. Other Studies: CAS# 64742-52-5:		
	Acute toxicity, LD, Oral, Rat, > 5.0 mg/kg		
Irritation or Corrosion:	Other Studies: CAS# 64742-52-5:		
	Standard Draize Test, Skin, Species: Rabbit, 500.0 mg.		
Carcinogenicity/Other	This product contains encapsulated silicon dioxide (quartz, silica). No exposure to free,		
Information:	respirable silica is anticipated during normal use of this product. Free, respirable silica has been listed as a confirmed human carcinogen by NTP and IARC. Inhalation of free,		



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respirable silica may cause silicosis or other serious delayed lung injury. Silica may be released by grinding or machining of coated materials. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION		
General EcologicalEnvironmental: No information available.Information:Physical: No information available.Other Studies: CAS# 7440-50-8:		
	LC50, Striped Bass (Morone saxatilis), larvae, 24 ug/L, 96H LC50, Water flea (Daphnia lumholtzi), 9.4 ug/L, 96H.	
Results of PBT and vPvB assessment:	No data available.	
Persistence and Degradability:	No data available.	
Bioaccumulative Potential:	No data available.	
Mobility in Soil:	No data available.	

13. DISI USAL CONSIDERATIONS			
	Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.	

13 DIEDOGAL CONCIDEDATIONS

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material. DOT Hazard Class: UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64742-52-5	Aliphatic petroleum distillate	No	No	No
7782-42-5	Graphite	No	No	No
112945-52-5	Silica, amorphous treated	No	No	No
7440-50-8	Copper	No	Yes 5000 LB	Yes-Cat. N100
CAS # 64742-52-5 7782-42-5	Hazardous Components (Chemical Name) Aliphatic petroleum distillate Graphite	Other US EPA or State ListsTSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No;NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WIAir: NoTSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No;NJ EHS: Yes - 3325; NY Part 597: No; PA HSL: Yes - 1; SCTAP: No; WI Air: Yes		

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112945-52-5	Silica, amorphous treated	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA	
		Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS:	
		No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No	
7440-50-8	Copper	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:	
		TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part	
		5; NC TAP: No; NJ EHS: Yes - 0528; NY Part 597: Yes; PA	
		HSL: Yes - E; SC TAP: No; WI Air: Yes	
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists	
64742-52-5	Aliphatic petroleum distillate	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes	
7782-42-5	Graphite	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes	
112945-52-5	Silica, amorphous treated	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes	
7440-50-8	Copper	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes	

16. OTHER INFORMATION

05/14/2015 Crystal Maira No data available.

Revision Date:		
Preparer Name:		
Additional Information:		
Company Policy or		
Disclaimer:		

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.