

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: L-12965
Product Name: Solution 1000 Food Grade Anti-Seize
Company Name: MRO Solutions, LLC
 5645 W. Howard St.
 Niles, IL 60714
Phone Number: +1 (847)588-2480
Web site address: <http://www.mrosolutions.com/>
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 5
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Aquatic Toxicity (Acute), Category 1
Aquatic Toxicity (Chronic), Category 1



GHS Signal Word: **Warning**

GHS Hazard Phrases: H303 - May be harmful if swallowed.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H400 - Very toxic to aquatic life.
 H410 - Very toxic to aquatic life with long lasting effects.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before re-use. P332+313 - If skin irritation occurs, get medical advice/attention.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
 P391 - Collect spillage.

GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Hazard Rating System:





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Potential Health Effects (Acute and Chronic):

Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Effects may be delayed.
Hazards not otherwise classified (HNOC) or not covered by GHS. None.

Inhalation:

May cause irritation to the respiratory tract. Inhalation of dusts at levels above recommended exposure limits may cause a metallic or sweet taste.

Skin Contact:

May cause mild skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis.

Eye Contact:

Dust may cause mechanical irritation. May cause tearing, redness, and swelling. May result in corneal injury.

Ingestion:

No hazard expected in normal industrial use. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
8042-47-5	White mineral oil	25.0 - 35.0 %
64742-52-5	Aliphatic petroleum distillate	20.0 %
1305-62-0	Hydrated lime	18.0 %
1314-13-2	Zinc oxide	<8.00 %
14807-96-6	Talcum	8.00 %
54326-11-3	Aluminum hydroxide benzoate stearate	2.50 - 5.00 %
112945-52-5	Silica, amorphous treated	3.00 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

In Case of Skin Contact: Wash off with soap and plenty of water. Get medical aid if irritation develops or persists.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, get medical aid.

In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical aid immediately. If victim is fully conscious, give a cupful of water. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

Signs and Symptoms Of Exposure: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Note to Physician: Treat symptomatically and supportively.



5. FIRE FIGHTING MEASURES

Flash Pt: 375 F (191 C) Method Used: Cleveland Open Cup
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data.
Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.
Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus...
Flammable Properties and Hazards: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, toxic fumes of zinc oxide.

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: Avoid breathing vapors, mist or gas. Provide ventilation. Remove all sources of ignition. Sweep up or absorb material, then place into a suitable clean, dry, closed 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.
Precautions To Be Taken in Storing: 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. Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from heat. 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

Table with 5 columns: CAS #, Partial Chemical Name, OSHA TWA, ACGIH TWA, Other Limits. Rows include White mineral oil, Aliphatic petroleum distillate, Hydrated lime, Zinc oxide, Talcum, and Aluminum hydroxide benzoate stearate.



SAFETY DATA SHEET Solution 1000 Food Grade Anti-Seize

Page: 1 of 1
Printed: 05/05/2015
Revision: 05/05/2015
Supersedes Revision: 02/22/1999

112945-52-5 Silica, amorphous treated

No data.

No data.

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 minimize contact with skin. Chemical resistant apron.

Engineering Controls (Ventilation etc.):

Use adequate general or local exhaust ventilation to minimize exposure levels. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. 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.

Environmental Exposure Controls:

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:

Gas Liquid Solid

Appearance and Odor:

Appearance: Off-white. Thick. Paste.
Odor: Slight. Petroleum-like.

Melting Point:

No data.

Boiling Point:

500 F (260 C) - 611 F (322 C)

Autoignition Pt:

No data.

Flash Pt:

375 F (191 C) Method Used: Cleveland Open Cup

Explosive Limits:

LEL: No data. UEL: No data.

Specific Gravity (Water = 1):

1.11

Density:

NA

Vapor Pressure (vs. Air or mm Hg):

NA

Vapor Density (vs. Air = 1):

Heavier than air

Evaporation Rate:

Slower than (Ether=1)

Solubility in Water:

NIL

Saturated Vapor Concentration:

NA

Viscosity:

NA

pH:

NA

Percent Volatile:

No data.



10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, toxic fumes of zinc oxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizing agents. Acids.
Hazardous Decomposition or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, toxic fumes of zinc oxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

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# 64742-52-5: Acute toxicity, LD, Oral, Rat, > 5.0 mg/kg Other Studies: CAS# 8042-47-5: TDLo, Oral, Rat, 92 gm/kg, 92 D. Other Studies: CAS# 1305-62-0: Acute toxicity, LD50, Oral, Rat, 7340 mg/kg. Other Studies: CAS# 1314-13-2: Acute toxicity, LDLo, Oral, Human, 500 mg/kg. Other Studies: CAS # 112945-52-5: Acute toxicity, LD50, Oral, Rat, 3160 mg / kg.
Irritation or Corrosion:	Other Studies: CAS# 64742-52-5: Standard Draize Test, Skin, Species: Rabbit, 500.0 mg.
Sensitization:	No data available.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Physical: No information available. Environmental: No information available.
Results of PBT and vPvB assessment:	Other Studies: CAS# 1305-62-0: LC50, Western Mosquitofish (Gambusia affinis), adult(s), 160000 ug/L, 96H, adults. Other Studies: CAS# 1314-13-2: LC50, Bluegill (Lepomis macrochirus), 320pm, 96 H.
Persistence and	No data available.



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Degradability:

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Contaminated packaging. 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.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

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)
8042-47-5	White mineral oil	No	No	No
64742-52-5	Aliphatic petroleum distillate	No	No	No
1305-62-0	Hydrated lime	No	No	No
1314-13-2	Zinc oxide	No	No	Yes-Cat. N982
14807-96-6	Talcum	No	No	No
54326-11-3	Aluminum hydroxide benzoate stearate	No	No	No
112945-52-5	Silica, amorphous treated	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

8042-47-5	White mineral oil	TSCA: 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; WI Air: No
64742-52-5	Aliphatic petroleum distillate	TSCA: 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; WI Air: No
1305-62-0	Hydrated lime	TSCA: 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 - 0322; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes
1314-13-2	Zinc oxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes - Cat.; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 2037; NY Part 597: No; PA HSL: Yes - E; SC TAP: No; WI Air: No
14807-96-6	Talcum	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No;



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NJ EHS: Yes - 1773; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

54326-11-3 Aluminum hydroxide benzoate stearate

TSCA: 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; WI Air: No

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

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International Regulatory Lists

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
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Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No
Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes

16. OTHER INFORMATION

Revision Date: 05/05/2015

Additional Information About This Product: No data available.

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.

