

LOR High Temp Antiseize Compound

Revision: 06/06/2023

Supersedes Revision: 02/23/2023

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** HT-2001
Product Name: LOR High Temp Antiseize Compound
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: Oil Center Research International, LLC **Phone Number:**
 106 Montrose Avenue (337)993-3559
 Lafayette, LA 70503 United States of America
- 1.4 Emergency telephone number:**
Emergency Contact: 01-703-527-3887

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
 Substances, which in contact with water, emit flammable gases, Category 2

2.2 Label Elements:**GHS Signal Word:** Danger**Hazard-determining components of labelling:****GHS Hazard Phrases:**

H261 - In contact with water releases flammable gases.

GHS Precautionary Phrases:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P223 - Do not allow contact with water.

GHS Response Phrases:

P370+378 - In case of fire, use chemical foam to extinguish.

GHS Storage and Disposal Phrases:

P402+404 - Store in a dry place and/or in closed container.

P501 - Dispose of contents/container to in accordance with federal regulations.

UFI:

- 2.3 Adverse Human Health** Inhalation is unlikely but in the event that misting occurs, chronic inhalation can cause
Effects and Symptoms: pneumoconiosis.
 Chronic: Prolonged or repeated exposure may cause permanent bone structure abnormalities. May cause kidney injury. May decrease blood clotting. Chronic exposure to fluoride compounds may cause systemic toxicity.

- 2.3.1 Inhalation:** Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated.
 May cause heart disturbances, possibly leading to cardiac arrest and death. May cause hyperactive reflexes and muscular spasms. May cause respiratory tract irritation.
- 2.3.2 Skin Contact:** Causes skin irritation. May decrease blood clotting. May cause skin irritation.
- 2.3.3 Eye Contact:** Causes eye irritation.

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2.3.4 Ingestion: No hazard expected in normal industrial use. The toxicological properties of this substance have not been fully investigated. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts of fluoride may cause salivation, nausea, vomiting, abdominal pain, fever, labored breathing. Exposure to fluoride compounds can result in systemic toxic effects on the heart, liver, and kidneys. It may also deplete calcium levels in the body leading to hypocalcemia and death. May cause bone structure abnormalities. Ingestion of large amounts may cause gastrointestinal irritation. May cause irritation of the digestive tract.

Section 3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7789-75-5	Calcium fluoride 01-2119491248-30	10.0 -20.0 %	232-188-7 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335
14807-96-6	Talcum 01-2120140278-58	5.0 -10.0 %	238-877-9 NA	No GHS classifications apply.
7429-90-5	Aluminum 01-2119529243-45	1.0 -5.0 %	231-072-3 013-001-00-6	Pyro. Sol. 1: H250 Water-React 2: H261

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid if cough or other symptoms appear.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes. Get medical aid if irritation develops or persists.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. If irritation develops, get medical aid.

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

Note for the Doctor: Administration of Calcium Disodium EDTA may be useful in acute poisoning with its use at the discretion of qualified medical personnel. Treat symptomatically and supportively.

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Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Do NOT use water directly on fire. Use dry chemical to fight fire. Use agent most appropriate to extinguish fire.
- 5.2 Flammable Properties and Hazards:** No data available.
- Flash Pt:** No data available.
- Explosive Limits:** > 204.4 C (> 400.00 F) Method Used: Estimate
LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** 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. Material will not burn.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** No data available.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Wash thoroughly after handling. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse. Avoid contact with eyes, skin, and clothing.
- 7.2 Precautions To Be Taken in Storing:** Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Keep container closed when not in use. Do not store near combustible materials. Store in a tightly closed container. Keep away from acids.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7789-75-5	Calcium fluoride	ACGIH TLV	TWA: 2.5 mg/m3	
		France VL	TWA: 2.5 mg/m3	
		OSHA PELs	TWA: 2.5 mg/m3	
14807-96-6	Talcum	ACGIH TLV	TLV: 2 mg/m3 (non-asbestos)	
		OSHA PELs	PEL: 706 ppm/20 mppcf	
		Britain EH40	TWA: 1 mg/m3 () STEL: ()	
7429-90-5	Aluminum	ACGIH TLV	TLV: 10 mg/m3 (dust)	
		France VL	TWA: 10 mg/m3 (Metal)	
		OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3	

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7429-90-5 Aluminum (continued)	Britain EH40	TWA: 10 mg/m3 (Inhalable dust)	
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8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.2.2 Personal protection equipment:**Personal Protective Equipment Symbols:**

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Clothing:

Respiratory Equipment (Specify Type): Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

No data available.

Exposure Scenarios: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: ☐ Gas ☐ Liquid ☒ Solid

Appearance and Odor: Paste.
Mild Petroleum.

Appearance: Silver.

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: > 204.4 C (> 400.00 F) Method Used: Estimate

Evaporation Rate: No data.

Saturated Vapor Concentration: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.078 at 25.0 C (77.0 F)

Density: 9 LB/GAL at 77.0 C (170.6 F)

Solubility in Water: < 1 at 25.0 C (77.0 F)

Octanol/Water Partition Coefficient: No data.

Autoignition Pt:

No data.

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Decomposition Temperature:	No data.
Viscosity:	No data.
9.2 Other Information	
9.2.1 Information with regard to physical hazard classes	
Information with regard to primary physical hazard:	
9.2.2 Other safety characteristics	

Section 10. Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
10.3 Conditions To Avoid - Hazardous Reactions:	No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
10.4 Conditions To Avoid - Instability:	Moisture, Incompatible materials.
10.5 Incompatibility - Materials To Avoid:	Reacts with hot concentrated sulfuric acid to liberate hydrogen fluoride. Oxidizing agents.
10.6 Hazardous Decomposition or Byproducts:	irritating and toxic fumes and gases, fluoride fumes. silicon dioxide, aluminum oxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:	Epidemiology: No information found. Teratogenicity: No information available. Reproductive Effects: Mutagenicity: Neurotoxicity: No information available. Other Studies:
Carcinogenicity/Other Information:	CAS# 7789-75-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 14807-96-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7429-90-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7789-75-5	Calcium fluoride	n.a.	n.a.	n.a.	n.a.
14807-96-6	Talcum	n.a.	3	n.a.	n.a.
7429-90-5	Aluminum	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity:	No data available.
12.2 Persistence and Degradability:	No data available.
12.3 Bioaccumulative Potential:	No data available.
12.4 Mobility in Soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	No data available.

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Section 13. Disposal Considerations

- 13.1 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.
- RCRA P-Series: None listed.
- RCRA U-Series: None listed.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** Not regulated as a hazardous material**DOT Hazard Class:****UN/NA Number:****14.1 LAND TRANSPORT (Canadian TDG):****TDG Shipping Name:** No information available.**14.1 LAND TRANSPORT (European ADR/RID):****ADR/RID Shipping Name:** No information available.**UN Number:****Hazard Class:****14.2 MARINE TRANSPORT (IMDG/IMO):****IMDG/IMO Shipping Name:** Not regulated as a hazardous material**UN Number:****Packing Group:****Hazard Class:****14.3 AIR TRANSPORT (ICAO/IATA):****ICAO/IATA Shipping Name:** Not regulated as a hazardous material**UN Number:****Packing Group:****Hazard Class:**

Section 15. Regulatory Information

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

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7789-75-5	Calcium fluoride	No	No	No
14807-96-6	Talcum	No	No	No
7429-90-5	Aluminum	No	No	Yes

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	

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CAS #	Components (Chemical Name)	Other US EPA or State Lists
7789-75-5	Calcium fluoride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; NY Part 597: No; PA HSL: No
14807-96-6	Talcum	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 4203; NY Part 597: No; PA HSL: Yes - 1
7429-90-5	Aluminum	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 0054; NY Part 597: No; PA HSL: Yes - E
CAS #	Components (Chemical Name)	International Regulatory Lists
7789-75-5	Calcium fluoride	Canadian DSL: Yes; REACH: Yes - 01-2119491248-30: Full, (P)
14807-96-6	Talcum	Canadian DSL: Yes; REACH: Yes - 01-2120140278-58: Full, (P)
7429-90-5	Aluminum	Canadian DSL: Yes; REACH: Yes - 01-2119529243-45: Full, (P)

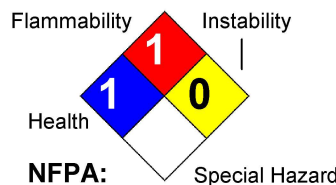
Section 16. Other Information

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Hazard Rating System:

HEALTH		1
FLAMMABILITY		1
PHYSICAL		0
PPE		B

HMIS:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information contained here is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product with zero or minimum hazards. Our products are improved daily as up-to-date information and research data is obtained from our suppliers in our quest to use products with less or no hazards. Please feel free to contact us for current information.