

SAG-D VALVE SEAL

GATE VALVE SEALANT FOR HI-TEMP SERVICE

DESCRIPTION

SAG-D VALVE SEAL is a premium semi-synthetic based lubricant and sealant for use in a wide variety of valve types utilized in high temperature services like geothermal well heads, steam, petroleum refineries, etc. The high viscosity base fluid is unaffected by acids, oils, CO₂, H₂S, glycols, caustics, water, steam, alcohols and other similar solvents. **SAG-D VALVE SEAL** is fortified with antioxidants and rust inhibitors to augment the natural film-forming and antioxidant properties of the base fluid blend.

SAG-D VALVE SEAL provides optimum sealability, lubricity and torque reduction. The high viscosity base fluid provides excellent fluid film lubrication even under extreme pressure. The synergistic blend of MoS₂ and other additives further enhances both the sealing and lubrication properties of this product. At extreme temperatures where the fluids are lost, these solids provide solid film lubrication to maintain usable operating torques on the valves. The inorganic, complex soap thickener allows for excellent chemical resistance and better antiwear properties while maintaining excellent mechanical stability.

- Color: Black
- Semi-Synthetic Base
- Seals, Lubricates
- Oxidation Resistant
- Injectable
- Nonhazardous, Nontoxic
- <5% loss after 24 hrs @ 450°F(232°C), typ.
- Synergistic Blend of MoS₂ & Other EP Additives

Note: *Not for use with oxygen or strong oxidizers such as hydrogen peroxide or sulfuric acid.*

TEMPERATURE RANGE

-25°F (-32°C) to 750°F (400°C)

PRODUCT CHARACTERISTICS

Appearance	Black sticky paste
Penetration	300 - 325 (ASTM D-217), mm x 10 ⁻¹
Density (lb/gal), Typical	8.4
Specific Gravity, Typical	1.0
Oil Separation Wt. %	3.0 max (FTMS 791.B M.321.2) (ASTM D-6184)
Flash Point F° (C°)	>600 (316) (ASTM D-92)
pH Range	2 - 12

PACKAGING

Code No.	Net Wt.	Unit Size
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LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

CORPORATE LOCATIONS

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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: **SAG-D VALVE SEAL**
Chemical Family: Semi-synthetic lubricant
Use: Lubricant for high temperature service

Manufacturer/Supplier: JET-LUBE, INC.
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 Houston, TX, 77028 USA **Phone:** 713-674-7617
Emergency Phone: 713-674-7617 **Fax:** 713-678-4604
Chemtrec 24 hours (USA): 800-424-9300

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Nonhazardous Blend	9003296/74869219 68037014/1317335 68411461	60-100	N/A	N/A	STEL: N/A

Main Hazards—Health Effects

Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled.
Ingestion: May cause diarrhea. **Skin:** Possible rash for persons with hypersensitivity.

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Wash out mouth immediately. Consult physician. **Skin:** Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist. **Unsuitable Extinguishing Media:** Water jet.
Protective Equipment for Fire fighting: Self-contained breathing apparatus.

Personal Precautions: Wear gloves & protective overalls. **Environmental Precautions:** Nonhazardous **Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: Do not allow it to enter drains (it may clog drain) **Storage:** Do not store at elevated temperatures.

Respiratory Protection: None needed. **Hand Protection:** Protective gloves for hypersensitive persons. **Eye Protection:** Glasses, if applied to parts in motion. **Body Protection:** Overalls.

Physical State: Viscous, sticky paste **Color:** Black **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** >600 (316)
Melting Point °F (°C): None **Flash Point (COC) °F (°C):** >600 (316) **Autoignition Temperature °F (°C):** >600 (316)
Explosive Properties: LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <0.01 **% Volatiles:** Nil **Density (g/cm³):** 1.0 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Not soluble **Vapor Density:** >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temps. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon. Residue mainly comprised of soot & mineral oxides.

Acute Toxicity: Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.
Genotoxicity: None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A **Carcinogen:** NTP: No IARC: No **OSHA:** No
EC Class (67/548/EEC): No **Allergens:** None known. **LC-50:** >4000mg/l-extrapolated from component data (mysidopsis bahia). **LD-50:** N/A

Possible Effects: None

Behavior: Relatively well behaved. Bioaccumulation almost nil.

Environmental Fate: Highly unlikely to cause notable contamination. Nontoxic to marine or land organisms.

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice. **Container Disposal:** Pails without liner—see Product Disposal section above. Pails with plastic liner—pail may only be disposed of via standard waste disposal services, recycled or reused. **Liner—**see Product Disposal section above.

Not classified as hazardous for transport. **D.O.T.:** Nonhazardous **UN No.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous
Sea Transport (IMO & IMDG): Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous


Labeling Information: None needed **EC Annex 1 Classification:** Not Applicable. **R Phrases:** R22—harmful if swallowed.

S Phrases: None applicable, as known. **Ozone Depleting Chemicals:** Not applicable. **TSCA:** All components are listed.

WHMIS (Canada): Not controlled **Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A

CERCLA: Nonhazardous **RCRA Hazard Class:** Nonhazardous **SARA 311/312:** None **TSCA 12B Components:** None

SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
 Prepared by: Donald A. Oldiges
 Date Issued: August 20, 2007

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LEGEND	
I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	IX. PHYSICAL AND CHEMICAL PROPERTIES
II. COMPOSITION INFORMATION ON INGREDIENTS	X. STABILITY AND REACTIVITY
III. HAZARDS IDENTIFICATION	XI. TOXICOLOGICAL INFORMATION
IV. FIRST AID MEASURES	XII. ECOLOGICAL INFORMATION
V. FIRE FIGHTING MEASURES	XIII. WASTE DISPOSAL
VI. ACCIDENTAL RELEASE MEASURES	XIV. TRANSPORT INFORMATION
VII. HANDLING AND STORAGE	XV. REGULATORY INFORMATION
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION	XVI. OTHER INFORMATION

HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	

NFPA SYMBOL

