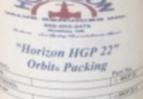
# **High-temp Orbit injectable packing**

**Horizon HGP 22** is an injectable packing comprised of graphite pellets that are designed for Orbit® valves in general service applications up to 600°



Specs and Services: Temperature Range.... -50° + 600° Color...... Black pellets Use in hydrocarbons, nitrogen, hydrogen, hydrogen sulfide, and carbon dioxide.

*Item #* HLHGP22– HP HLHGP22-P

*Size* 1/2 pint can Pint can

# Quantity

1 can 1 can



9372 State Hwy 99 — Hominy, Oklahoma 74035— PO Box 650 — Hominy, Oklahoma 74035–0650 Tel. (918) 885-4395 — Toll Free (866) 202-2478 — Fax (918) 885-6013 www.horizonvalve.com



# MATERIAL SAFETY DATA SHEET



# 1. Product and Company Identification

1. Product and Company I	dentification
Material name	GRAFOIL® Injectable Packing Containing Oil
Version #	03
Issue date	07-25-2012
Revision date	09-26-2012
Supersedes date	09-13-2012
CAS #	Mixture
MSDS Number	0017
Product use	Thermal interface.
Manufacturer information	
Manufacturer/Supplier	GrafTech International Holdings Inc. 12900 Snow Road Parma, Ohio 44130 +1 216-676-2000
Contact person	Dave Mieskowski +1 216-676-2304
E-mail Emergency number	Dave.Mieskowski@graftech.com For Chemical Emergency ONLY, call CHEMTREC at:
	+1-800-424-9300 or +1-703-527-3887
2. Hazards Identification	
Physical state	Solid.
Appearance	Black paste.
Emergency overview	In its manufactured and shipped state, this product is considered to present low hazard. Processing may generate hazardous fumes and dusts.
OSHA regulatory status	Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Inhalation.
Eyes	Dust in the eyes will cause irritation.
Skin	Dust may irritate skin. Prolonged skin contact may cause redness, irritation and dry skin. May cause eczema-like skin disorders (dermatitis).
Inhalation	Dust and fumes generated from the material can enter the body by inhalation. High concentrations of dust and fumes may irritate the throat and respiratory system and cause coughing. Frequent inhalation of fume/dust over a long period of time increases the risk of developing lung diseases. Prolonged and repeated overexposure to dust can lead to pneumoconiosis. Repeated exposure to high concentrations of dust may adversely affect the lungs and increase the risks of developing respiratory cancer.
Ingestion	Ingestion of dusts generated during working operations may cause nausea and vomiting.
Target organs	Skin. Respiratory tract. Lung. Eyes.
Chronic effects	Danger of adverse health effects by prolonged exposure. Crystalline silica has been classified by IARC, NTP and ACGIH as a known human carcinogen and suspected human carcinogen respectively. Prolonged breathing of high levels of crystalline silica can cause silicosis. Also, airborne crystalline silica is possibly carcinogenic to humans. Pre-existing pulmonary disorders, such as emphysema, may possibly be aggravated by prolonged exposure to high concentrations of graphite and/or crystalline silica dusts. Prolonged and repeated overexposure to dust can lead to pneumoconiosis.
Signs and symptoms	Eye contact: Exposed individuals may experience eye tearing, redness, and discomfort. Skin contact: Prolonged skin contact may cause redness, irritation and dry skin.
Potential environmental effects	The product is not expected to be hazardous to the environment.

# 3. Composition / Information on Ingredients

Components		CAS #	Percent
Graphite		7782-42-5	> 85
Crystalline silica (quartz)		14808-60-7	< 0.8
Composition comments	All concentrations are in percent by weight unless in percent by volume.	gredient is a gas. Ga	s concentrations are in
4. First Aid Measures			
First aid procedures			
Eye contact	Immediately flush eyes with plenty of water for at lea and open eyelids wide apart. Do not rub eye. Get me		ove any contact lenses
Skin contact	Remove contaminated clothing. Wash contact areas promptly if symptoms persist or occur after washing.		. Get medical attention
Inhalation	Move injured person into fresh air and keep person of difficulties, oxygen may be necessary. Get medical a		on. For breathing
Ingestion	Rinse mouth thoroughly if dust is ingested. Get med	ical attention if any d	liscomfort continues.
Notes to physician	Treat symptomatically.		
5. Fire Fighting Measures			
Flammable properties	Bulk material is non-combustible. The material may f charges, which may cause an electrical spark (ignition		cumulate electrostatic
Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or	water fog.	
Unsuitable extinguishing media	None.		
Protection of firefighters			
Protective equipment and precautions for firefighters	Use standard firefighting procedures and consider th Caution should be exercised when using water or for directed onto containers of hot or burning material. C and remove it if no risk is involved.	am as frothing may o	ccur, especially if
Fire fighting equipment/instructions	Self-contained breathing apparatus and full protective	ve clothing must be v	vorn in case of fire.
Specific methods	Use standard firefighting procedures and consider th Caution should be exercised when using water or for directed onto containers of hot or burning material.		
Hazardous combustion products	Carbon oxides. Unidentified organic compounds.		
6. Accidental Release Mea	sures		
Personal precautions	Avoid generation and spreading of dust. Avoid inhala Wear suitable protective clothing and gloves. See Se Equipment.		
Environmental precautions	Do not allow material to enter storm or sanitary sewe	ers, groundwater or s	soil.
Methods for cleaning up	Collect dust using a vacuum cleaner equipped with H dust with water fog before it is collected with shovel, containers and seal securely. Containers must be lal the MSDS.	broom or the like. Co	ellect in approved
7. Handling and Storage			
Handling	Use work methods which minimize dust production. use local exhaust in combination with general ventila the workers' breathing zone and to ensure exposure be taken to seal electrical circuits and switches that is to the atmosphere where they may settle on and cau Do not breathe fumes and dusts. Avoid contact with protective equipment. Observe good industrial hygie	ation as necessary to s do not exceed appl may be affected. Dus use shorting of outsid skin and eyes. Wear	remove fumes/dust from licable limits. Care should sts should not be emitted e electrical equipment.

Storage

Keep away from heat, spark, open flames and other sources of ignition. Store away from incompatible materials.

# 8. Exposure Controls / Personal Protection

### Occupational exposure limits

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Crystalline silica (quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFI	R 1910.1000)	-	
Components	Туре	Value	Form
Crystalline silica (quartz)	TWA	0.3 mg/m3	Total dust.
(CAS 14808-60-7)		-	
		0.1 mg/m3	Respirable.
Granhita (CAS 7782 12 5)	TWA	2.4 mppcf 15 mppcf	Respirable.
Graphite (CAS 7782-42-5)	upational Health & Safety Code, Sch		
			Form
Components	Туре	Value	
Crystalline silica (quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable.
Components	Туре	Value	Form
Crystalline silica (quartz)	TWA	0.025 mg/m3	Respirable fraction.
(CAS 14808-60-7)		Ū.	
	TWA	2 mg/m3	Respirable.
Graphite (CAS 7782-42-5)	TWA ntrol of Exposure to Biological or Ch	-	Respirable.
Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Cor		-	Respirable. Form
Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Con Components Crystalline silica (quartz)	ntrol of Exposure to Biological or Ch	emical Agents)	
Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Con Components Crystalline silica (quartz) (CAS 14808-60-7)	ntrol of Exposure to Biological or Ch Type	emical Agents) Value	Form
Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Con Components Crystalline silica (quartz) (CAS 14808-60-7) Graphite (CAS 7782-42-5)	ntrol of Exposure to Biological or Ch Type TWA	emical Agents) Value 0.1 mg/m3 2 mg/m3	Form Respirable Respirable fraction.
Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Con Components Crystalline silica (quartz) (CAS 14808-60-7) Graphite (CAS 7782-42-5) Canada. Quebec OELs. (Mir	ntrol of Exposure to Biological or Ch Type TWA TWA histry of Labor - Regulation Respecti	emical Agents) Value 0.1 mg/m3 2 mg/m3 ng the Quality of the Work Em	Form Respirable Respirable fraction.
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Graphite (CAS 7782-42-5) Canada. Ontario OELs. (Con Components Crystalline silica (quartz) (CAS 14808-60-7) Graphite (CAS 7782-42-5) Canada. Quebec OELs. (Mir Components Crystalline silica (quartz) (CAS 14808-60-7) Graphite (CAS 7782-42-5) Mexico. Occupational Expor Components Crystalline silica (quartz) (CAS 14808-60-7) Graphite (CAS 7782-42-5)	ntrol of Exposure to Biological or Ch Type TWA TWA nistry of Labor - Regulation Respecti Type TWA TWA TWA TWA Sure Limit Values Type TWA TWA Provide adequate general and local of ventilation is required. Provide exploso occupational exposure limits and mir	emical Agents)  Value 0.1 mg/m3 2 mg/m3 ng the Quality of the Work Em Value 0.1 mg/m3 2 mg/m3  Value 0.1 mg/m3 10 mg/m3 exhaust ventilation. Mechanical vector of ventilation for high du imize the risk of inhalation of du soap, skin cleanser and fatty com	Form Respirable Respirable fraction. vironment) Form Respirable dust. Respirable dust. ventilation or local exhaust st concentrations. Observe st and fumes. Provide

Skin protection	Wear suitable protective gloves to prevent cuts and abrasions. Suitable gloves can be recommended by the glove supplier. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Use a NIOSH–approved respirator if there is a potential for exposure to dust exceeding exposure limits (See 29 CRF 1910.134, respiratory protection standard). Seek advice from supervisor on the company's respiratory protection standards.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical & Chemical Properties

Appearance	Black paste.
Physical state	Solid.
Form	Paste.
Color	Black.
Odor	Slight hydrocarbon.
Odor threshold	Not available.
рН	Not apllicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Boiling point	Not applicable.
Melting point/Freezing point	> 5000 °F (> 2760 °C)
Solubility (water)	Insoluble.
Specific gravity	0.3 - 1.8
Flash point	410 °F (210 °C)
Flammability limits in air, upper, % by volume	7
Flammability limits in air, lower, % by volume	0.6
Auto-ignition temperature	Not applicable.
Evaporation rate	Not applicable.
Partition coefficient (n-octanol/water)	Not applicable. No data available.

# 10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Dust is combustible, avoid sources of ignition and strong oxidizing agents. This product should not be used in oxidizing atmosphere.
Incompatible materials	Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	Carbon oxides. Unidentified organic compounds.
Possibility of hazardous reactions	Will not occur.

# 11. Toxicological Information

Sensitization	May cause eczema-like skin disorders (dermatitis).
Acute effects	No data available for this product.
Local effects	Dust may irritate the eyes. Dust may irritate skin. High concentrations of dust may irritate throat and respiratory system and cause coughing.

Chronic effects	Repeated exposure to high concentrations of dust may adversely affect the lungs and increase the risks of developing respiratory cancer. Frequent inhalation of fume/dust over a long period of time increases the risk of developing lung diseases. Pre-existing pulmonary disorders, such as emphysema, may possibly be aggravated by prolonged exposure to high concentrations of graphite and/or crystalline silica dusts. Prolonged and repeated overexposure to dust can lead to pneumoconiosis.	
Carcinogenicity		
ACGIH Carcinogens		
Crystalline silica (quartz) ( IARC Monographs. Overall E	(CAS 14808-60-7) Evaluation of Carcinogenicity	A2 Suspected human carcinogen.
Crystalline silica (quartz) (CAS 14808-60-7) 1 Carcinogenic to humans. US NTP Report on Carcinogens: Known carcinogen		1 Carcinogenic to humans.
Crystalline silica (quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.		Known To Be Human Carcinogen.
Mutagenicity	No data available.	
Reproductive effects	No data available.	
Symptoms and target organs		uals may experience eye tearing, redness, and discomfort. Skin act may cause redness, irritation and dry skin.
Further information	exposure to high concentratio repeated overexposure to dus the respirable dust of crystallin	ers, such as emphysema, may possibly be aggravated by prolonged ns of graphite and/or crystalline silica dusts. Prolonged and t can lead to pneumoconiosis. Crystalline silica: Overexposure to he silica (quartz or cristobalite, less than or equal to 5 microns in umans, which is a progressive and irreversible lung disease.

# **12. Ecological Information**

Ecotoxicity	The product is not expected to be hazardous to the environment.
Persistence and degradability	The degradability of the product has not been stated.
Bioaccumulation / Accumulation	No data available on bioaccumulation.
Partition coefficient	Not applicable.
Mobility in environmental media	Not relevant, due to the form of the product.

# 13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Dispose of waste and residues in accordance with local authority requirements. Waste must be kept in sealed and labeled containers. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.
Waste from residues / unused products	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging	Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

# 14. Transport Information

### DOT

Not regulated as a hazardous material by DOT.

# ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### TDG

Not regulated as dangerous goods.

## **15. Regulatory Information**

**US federal regulations** 

Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Sectior Not regulated.	n 112 Hazardous Air Pollutants	s (HAPs) List	
CERCLA (Superfund) reportable	e quantity (Ibs) (40 CFR 302.4)		
None			
Superfund Amendments and Re	authorization Act of 1986 (SA	RA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No		
Section 311/312 (40 CFR 370)	Yes		
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled		
Canadian regulations	This is not a WHMIS controlle	d product.	
WHMIS status	Non-controlled		
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of Chemi	cal Substances (AICS)	Yes
Canada	Domestic Substances List (DS		Yes
Canada	Non-Domestic Substances Lis		No
China	Inventory of Existing Chemica	I Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Substances (EINECS)	g Commercial Chemical	Yes
Europe	European List of Notified Cher	mical Substances (ELINCS)	No
Japan	Inventory of Existing and New	Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand Inventory		Yes
Philippines	Philippine Inventory of Chemic (PICCS)	cals and Chemical Substances	Yes
United States & Puerto Rico	Toxic Substances Control Act		Yes
•		nts administered by the governing country(s)	
State regulations	reproductive harm.	als known to the state of California to cause	birth defects or other
	bubstances (Director's): Listed		
Graphite (CAS 7782-42-8 US - California Proposition		Listed. tive Toxicity (CRT): Listed substance	
Crystalline silica (quartz) US - California Proposition	(CAS 14808-60-7) 65 - CRT: Listed date/Carcinog	Listed. genic substance	
Crystalline silica (quartz) US - New Jersey RTK - Subs		Listed: October 1, 1988 Carcinogenic.	
Crystalline silica (quartz) Graphite (CAS 7782-42-5		Listed. Listed.	
US. Massachusetts RTK - S			
Crysta <b>ll</b> ine silica (quartz) Graphite (CAS 7782-42-5	5)	Listed. Listed.	
-	I Community Right-to-Know A	ct	
Not regulated. US. Pennsylvania RTK - Haz	zardous Substances		
Crystalline silica (quartz)		Listed.	
Graphite (CAS 7782-42-5		Listed.	

Mexico regulations	Under some use conditions, this material may be considered to be hazardous in accordance with Mexican regulations.
16. Other Information	
Further information	HMIS® is a registered trade and service mark of the NPCA. F - Safety Glasses, Gloves, Apron, Dust Respirator
	This safety data sheet contains revisions in the fo <b>ll</b> owing section(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Grades: TG-050, TG-051.
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0 Personal protection: F
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
Disclaimer	GRAFTECH INTERNATIONAL HOLDINGS INC. ADVISES THE USERS OF THIS PRODUCT TO STUDY THIS MATERIAL SAFETY DATA SHEET (MSDS). AND BECOME AWARE OF PRODUCT HAZARDS AND SAFETY INFORMATION. TO PROMOTE SAFE USE OF THIS PRODUCT, USERS SHOULD NOTIFY THEIR EMPLOYEES, AGENTS AND CONTRACTORS OF THE INFORMATION ON THIS MSDS AND ANY PRODUCT HAZARDS AND SAFETY INFORMATION.
	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.