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SDS

Safety Data Sheet

09-06-2023

Frac Valve Black

Section 1 - Product Identification

Product Name: Frac Valve Black
Product Part Number: FVB
Product Type: Valve Lubricant

Recommended use of the chemical and restrictions on use:

Application _____ Valve Lubricant - Use Only as Entended.
Uses advised against _____ DO NOT use this material in oxygen service.

Details of the supplier of the safety data sheet:

Manufacturer:
DUALCO, Inc.
8404 Braniff, Houston, Texas 77061
Telephone: 713-644-1164 Website: dualco-inc.com

Emergency Telephone Number:

Emergency Telephone _____ 713-644-1164

Section 2 - Hazardous Identification

Classification of the Chemical or Mixture

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product. This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical Hazards:
Not Classified

Health Hazards:
Not Classified

Environmental Hazards:
Not Classified

Label Elements

Hazard Statements
Not Classified

Emergency Overview

The product contains no substances which, at their given concentration, are considered to be hazardous to health.

Frac Valve Black

Section 3 - Composition / Information on Ingredients**Mixtures**

Chemical Name	CAS Number	Composition (% w/w)
Castor Oil	8001-79-4	75 - 90
Silicon Dioxide Amorphous	7631-86-9	.01 - .09
Moly Disulfide	1317-33-5	10 - 25

The exact concentrations of the above listed chemicals are being withheld as a trade secret in accordance with 29 CFR 1910.1200.

Section 4 - First Aid Measures**First Aid Measures****General information:**

If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
First Aider needs to protect themselves.

Eye Contact:

Remove any contact lenses. Flush eyes with water for 15 minutes while holding eyelids open.

Inhalation:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Consult a physician/poison center if individual's condition declines or if symptoms persist.

Ingestion:

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin Contact:

Wash with plenty of water. If skin irritation persists, call a physician.

Most important symptoms and effects, both acute and delayed:

Notes to Physician: Treat symptomatically.

Specific Treatments: No special treatment required.

Frac Valve Black

Section 5 - Fire Fighting Measures

Extinguishing Media

- **Appropriate Extinguishing Media:**
Foam, Carbon Dioxide, Dry Chemical, & Sand
- **Inappropriate Extinguishing Media:**
DO NOT use water jet as an extinguisher, as this will spread the fire.
Use water spray to cool containers only.

Specific Hazards

Combustion Products:

Carbon monoxide, carbon dioxide, products of incomplete hydrocarbon combustion.

Unusual Fire and Explosion Hazards:

Water may cause frothing. Will not flash spontaneously. May ignite if exposed to open flame.

Flash Point (C.O.C.): _____ > 200°C (> 392°F) • Method: Closed Cup

Flammable Limits: _____ Lower: N/A, Upper: N/A

Advice for Firefighters

Protective actions during firefighting:

Avoid breathing fire gases or vapors. Evacuate area.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required. For personal protection, see Section 8.

Environmental Precautions:

Avoid discharge to the aquatic environment. **Large Spillages:** Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). See Section 12 for additional Ecological Information.

Methods for Cleaning Up:

Reclaim where possible. Wear protective clothing as described in Section 8. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind.

Small Spillages: Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Frac Valve Black

Section 7 - Handling and Storage

Precautions for Safe Handling

Usage Precautions:

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use.

Advice on General Occupational Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse.

Storage Precautions:

Keep containers lightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations.

Section 8 - Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Components	CAS Number	Exposure Limits:		
		Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon Dioxide Amorphous (Mineral Dusts)	7631-86-9	8-Hour TWA	20 mppcf	OSHA*

* OSHA = Occupational Safety and Health Administration.

Exposure Controls

Appropriate Engineering Controls: None under normal conditions

Protective Equipment:



Eye/Face Protection:

Eye-wear complying with an approved standard are a minimum level of protection. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. The following protection should be worn: Chemical splash goggles.

Hand Protection:

Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection: Refer to 29 CFR 1910.134 for respiratory protection requirements.

Other Skin and Body Protection:

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Frac Valve Black

Section 9 - Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

General Information:

Physical State:	Semi Solid
Appearance:	Viscous Paste
Color:	Gray to Black
Odor:	Not Determined
Odor Threshold:	Not Determined

Basic Physical and Chemical Properties:

pH:	Not Determined
Melting Point / Freezing Point:	-20°C (-4°F)
Initial Boiling Point & Range:	Not Determined
Flash Point (C.O.C.):	> 200°C (> 392°F) • Method: Closed Cup
Auto-ignition temperature:	No Data Available
Evaporation Rate:	Not Determined
Decomposition Temperature:	Not Determined
Flammability (solid, gas):	Not Determined
Upper/lower flammability or explosive limits:	Not Determined
Vapor pressure:	Not Determined
Relative density:	Not Determined
Vapor density:	0.99
Solubilities:	Water: Insoluble
Partition coefficient (n-octanol/water):	Not Determined
Viscosity:	Not Determined

Section 10 - Stability And Reactivity

Reactivity:

There are no known reactivity hazards associated with this product.

Chemical Stability:

Material is chemically stable under normal conditions.

Change in Physical Appearance:

No potential hazards known under normal conditions. Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid:

Extreme heat.

Materials to Avoid:

Strong oxidizing agents.

Hazardous Decomposition Products:

Oxides of Carbon when burned.

Frac Valve Black

Section 11 - Toxicological Information

Likely Routes of Exposure:

- Eyes _____ May cause temporary irritation on eye contact.
- Inhalation _____ Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- Ingestion _____ Under normal conditions of intended use, this material is not expected to be an ingestion hazard.
- Skin Contact _____ Prolonged contact may cause redness and irritation.

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Silicon Dioxide Amorphous	= 3160 mg/Kg (Rat)	~	~

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity: Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Chemical Name	ACGIH	IARC *	NPT	OSHA
Silicon Dioxide Amorphous	~	Group 3	~	~

* IARC (International Agency for Research on Cancer)
Group 3 IARC components are "Not Classified as Human Carcinogens".

Numerical Values of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:
Values exceed classification criteria.

Frac Valve Black

Section 12 - Ecological Information

Eco-toxicity:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxicity:

Based on available data the classification criteria are not met.

Persistence and Degradability:

The degradability of the product is not known.

Bio-Accumulative Potential:

Bio-Accumulative Potential:

No data available on bio-accumulation.

Mobility in Soil:

Not Determined

Other adverse effects:

Not Determined

Section 13 - Disposal Considerations

Waste Treatment Methods:

General information

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods:

Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

Frac Valve Black

Section 14 - Transport Information

Note:

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT: Not regulated

IATA: Not regulated

IMDG: Not regulated

Section 15 - Regulatory Information

International Inventories

Chemical Name	TSCA	TSCA Inventory Status	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Castor Oil	x	Active	x	x		x	x	x	x
Silicon Dioxide Amorphous	x		x		x	x	x	x	x

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) inventory
- DSUNDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- P/CCS - Philippines inventory of Chemicals and Chemical Substances
- A/CS - Australian inventory of Chemical Substances

US Federal Regulations

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA313:

Section 313 of Title 111 of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Frac Valve Black

Section 15 - Regulatory Information (cont.) [Non-Mandatory](#)

US State Regulations

California Prop 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations.

Section 16 - Other Information

General information _____ Only trained personnel should use this material.

Revision comments _____ New Product

Issue date _____ 09 / 06 / 2023

Revision _____ 09 / 06 / 2023

NFPA _____	Health Hazards _____	Flammability _____	Instability _____	Special Hazards _____
	Not Determined	Not Determined	Not Determined	Not Determined

HMIS _____	Health Hazards _____	Flammability _____	Instability _____	Special Hazards _____
	Not Determined	Not Determined	Not Determined	Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of SDS