

SAFETY DATA SHEET



Date Prepared : 05/26/2022
SDS No : VFD 648

VFD 648

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VFD 648
GENERIC NAME: Anti Accretion

MANUFACTURER

Valence Drilling Fluids, LLC.
PO Box 7174
Edmond, OK 73083 USA
(405) 285-6454 (8 AM to 5PM Monday to Friday CST)

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) : (800) 424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
Skin Irritation, Category 2
Eye Irritation, Category 2B
Reproductive Toxicity, Category 2
Target Organ Toxicity (Single exposure), Respiratory tract irritation., Category 3
Target Organ Toxicity (Single exposure), Narcotic effects., Category 3
Target Organ Toxicity (Repeated exposure), Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL



Health
hazard



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

Causes skin irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility. Suspected of damaging the unborn child.
May cause damage to systems (Central Nervous System) through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
Harmful to aquatic life.
Suspected of causing cancer.
Combustible liquid.

PRECAUTIONARY STATEMENTS

Prevention:

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash skin thoroughly after handling.
 Avoid release to the environment.
 Use only outdoors or in a well-ventilated area.
 Use personal protective equipment as required.
 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF SWALLOWED: Rinse mouth of victim is conscious. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 Call a POISON CENTER/doctor/...if you feel unwell.
 IF exposed or concerned: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/attention.
 If skin irritation occurs: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Store in a closed container.

Disposal:

Dispose of contents/container in accordance with National / State / Local regulations. Handle accordingly. Use licensed transporter and disposal facility. Beware that these regulations may also apply to empty containers, liners and rinsate.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Avoid contact with skin, eyes or clothing.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: May cause moderate irritation and discomfort.

INGESTION: Swallowing this material may be harmful.

INHALATION: Avoid inhalation of dusts/mists/vapours.

MEDICAL CONDITIONS AGGRAVATED: Person with pre-existing skin disorders or eye problems may be more susceptible to the effects of this substance.

ROUTES OF ENTRY: Ingestion, Inhalation, Skin Contact and/or Eye Contact.

CANCER STATEMENT: This product contains material that is suspected of causing cancer. The toxicological and carcinogenic properties of this material have not been fully investigated. Handle accordingly, avoiding contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Solvent Naphtha (petroleum)	75 - 85	64742-94-5
Benzene, Methyl-	< 3	108-88-3

COMMENTS: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water. Get medical attention if irritation occurs.

SKIN: Immediately wash with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after washing has begun. If irritation persists seek medical attention.

INGESTION: Immediately rinse mouth and then drink plenty of water. Do NOT induce vomiting. Seek medical attention. Keep head low so stomach contents do not enter the lungs.

INHALATION: Remove victim from exposure and place in fresh air immediately. Give oxygen or respiration as needed.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: GHS Category 4 Combustible Liquid.

GENERAL HAZARD: Do not use water jet as an extinguisher - this will SPREAD the fire.

EXTINGUISHING MEDIA: Use Water Fog, Foam, Dry Chemical and Carbon Dioxide when fighting fires of this material.

OTHER CONSIDERATIONS: As a solid, substance may FLARE out of containment but will NOT support combustion.

EXPLOSION HAZARDS: Releases vapors at normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.

Flammable vapors may be heavier than air and may travel long distances along the ground before igniting or flashing back to vapor source.

FIRE FIGHTING PROCEDURES: Do not enter fire area without proper protection including respiratory protection. Do not breathe fumes. Use standard procedures for fighting chemical fires and consider the hazards of other involved materials. Heat may build pressure and rupture closed containers, spreading fire, increasing risk of burns and injuries. Use water for cooling. Move containers from fire area if you can do so without risk. Notify authorities if liquid enters sewer or public waters.

FIRE FIGHTING EQUIPMENT: Fire-fighters should wear appropriate protective equipment with approved respirators.

SENSITIVE TO STATIC DISCHARGE: Yes

SENSITIVITY TO IMPACT: NA = Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products depend upon temperature, air supply and the presence of other materials. When heated to decomposition, this product may burn releasing combustion products which may be toxic, including carbon oxides (CO,CO₂) and smoke.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material. Transfer to secondary container to be properly disposed.

LARGE SPILL: If emergency personnel are unavailable, stop the spill at the source, and contain spilled material to prevent runoff from reaching a waterway. Dike spilled material and place in a sealable, liquid-proof container for disposal. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to regulations.

ENVIRONMENTAL PRECAUTIONS

LAND SPILL: Prevent run-off into sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

GENERAL PROCEDURES: Notify appropriate authorities of a spill or discharge.

RELEASE NOTES: Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep low areas clear. Do not breathe vapor/mist/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed area before entering them.

SPECIAL PROTECTIVE EQUIPMENT: Use personal protective equipment including appropriate respiratory protection device from an approved respirator to a self-contained breathing apparatus that is suitable for the task.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: For transport, handling and storage use steel or stainless steel drums.

HANDLING: Do not get in eyes or on skin or clothing. Keep container closed when not in use. Use only with adequate ventilation and non-sparking tools. Do not breathe vapor or mist. Wash thoroughly after handling. Ensure all equipment is electrically grounded before beginning transfer operations.

STORAGE: Store in original, tightly closed containers in cool, dry, well ventilated area away from heat, sources of ignition and incompatible materials. Do not store in an unlabeled container. Store drums with bungs in up position. Store locked up.

ELECTROSTATIC ACCUMULATION HAZARD: Do not "switch" load (load into containers which previously contained gasoline or other low flash material) because of possible accumulation of a static charge resulting in a source of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Solvent Naphtha (petroleum)	OSHA	TWA	500	2,000
	ACGIH	TWA		200
Benzene, Methyl-	OSHA	TWA	200	
		STEL	300	
	ACGIH	TWA	50	188

ENGINEERING CONTROLS: Local exhaust or general room ventilation is required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Contact lenses must not be worn.
Recommend - splash goggles or face shield.

SKIN: Wear chemical resistant protective gloves. Body protection must be chosen based on level of activity and exposure.

RESPIRATORY: If exposure can exceed the Permissible Exposure Limit (PEL)/Threshold Limit Value (TLV), use only National Institute of Occupational Safety and Health (NIOSH)/Occupational Safety and Health Administration (OSHA) approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

PROTECTIVE CLOTHING: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RECOMMEND: Impervious apron or overall.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

RECOMMEND: Synthetic or rubber gloves with more than 8 hours (breakthrough time).

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes. Remove contaminated clothing.

OTHER USE PRECAUTIONS: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

COMMENTS: The protective equipment must be selected in accordance with current, local standards and in cooperation with the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use and the potential hazards, and/or risks that may occur during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Aromatic odor

APPEARANCE: Clear

COLOR: Light Yellow to Medium Amber

pH: Not Available

FLASH POINT AND METHOD: > 65.5°C (150°F) Pensky-Martens closed cup

FLAMMABLE LIMITS: Not Established

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

MELTING POINT: Not Established

POUR POINT: Not Established

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Insoluble

PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Established

EVAPORATION RATE: Not Established

DENSITY: 7.788 Lbs. / Gallon at 25°C (77°F)

SPECIFIC GRAVITY: 0.934 grams/milliliter at 25°C (77°F)

10. STABILITY AND REACTIVITY

REACTIVITY: None Expected.

HAZARDOUS POLYMERIZATION: None Expected.

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.
Avoid direct contact.

POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products depend upon temperature, air supply and the presence of other materials. When heated to decomposition, this product may burn releasing combustion products which may be toxic, including carbon oxides (CO, CO₂) and smoke.

INCOMPATIBLE MATERIALS: Strong Oxidizing agents, such as Hydrogen Peroxide, Bromine and Chromic Acid.
Strong Acids, Strong Alkalines, heat, sparks, open flames and elevated temperatures.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: Not Established

ORAL LD₅₀: Not Established

INHALATION LC₅₀: Not Established

NOTES: No known significant effects or critical hazards.

CARCINOGENICITY

Chemical Name	IARC Status
Benzene, Methyl-	3

NOTES: The International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) lists checked were last updated on April 7, 2015. Occupational Safety and Health Administration (OSHA) was last updated on March 26, 2012.

REPRODUCTIVE TOXICITY: Exposure to toluene during pregnancy has demonstrated limited evidence of developmental toxicity in laboratory animals. The effects seen include decreased fetal body weight and increased skeletal variations in both inhalation and oral studies.

STOT-SINGLE EXPOSURE: Inhalation of high concentration of toluene has been shown to cause liver, kidney and central nervous system damage, including hearing loss and visual disturbances

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This material is expected to be toxic to aquatic organisms.

ECOTOXICOLOGICAL INFORMATION: Not Established

AQUATIC TOXICITY (ACUTE): Toxic to aquatic life according to the classification criteria for mixtures.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Generator of waste must determine how to properly dispose of that waste. Contact State and Federal regulators to determine whether material should be classified as a hazardous or industrial waste. **HANDLE ACCORDINGLY.** Use licensed transporter and disposal facility.

EMPTY CONTAINER: Containers of this product may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in the data sheet must be observed.

GENERAL COMMENTS: Responsibility for proper waste disposal rests with the generator of the waste. Comply with Federal / State / Local regulations for disposal. Contact state and federal regulators to determine whether material should be classified as a hazardous waste or industrial waste. Handle accordingly. Use licensed transporter and disposal facility. Note that these regulations may also apply to empty containers, liner and rinsate.

COMMENTS: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection, waste disposal legislation and any regional/local authority requirements.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible Liquid, n.o.s.

TECHNICAL NAME: Contains Petroleum Solvent

PRIMARY HAZARD CLASS/DIVISION: Class 3 - Flammable Liquids (and Combustible Liquids [U.S.])

UN/NA NUMBER: NA 1993

PACKING GROUP: III

NAERG: 128

MARINE POLLUTANT #1: No

OTHER SHIPPING INFORMATION:

NON BULK SHIPMENTS: Materials classified as DOT Combustible Liquids (Flash point >140° F and <200° F) are NOT REGULATED by DOT in containers less than 450 Liters (119 Gallons) for domestic shipments.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable
Liquid

Combustible Liquid. Flash Point above 140 F.

R36/37/38: Irritating to eyes, skin, and respiratory system.

S23: Do not breathe gas/fumes/vapour/spray.

S16: Keep away from sources of ignition. No smoking.

S1/2: Keep locked up and out of reach of children.

R60: May impair fertility.

R61: May cause harm to the unborn child.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S57: Use appropriate container to avoid environmental contamination.

S29: Do not empty into drains.

S18: Handle and open container with care.

R51: Toxic to aquatic organisms.

R53: May cause long-term adverse effects in the aquatic environment.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Benzene, Methyl-	< 3	108-88-3

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Benzene, Methyl-	< 3	1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Solvent Naphtha (petroleum)	64742-94-5
Benzene, Methyl-	108-88-3

CALIFORNIA PROPOSITION 65

Chemical Name	Wt.%	Listed
Benzene, Methyl-	< 3	• Cancer • Female Reproductive

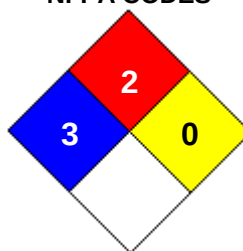
16. OTHER INFORMATION

REASON FOR ISSUE: Convert to GHS

Date Prepared: 05/26/22

HMIS RATING

HEALTH		3
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X

NFPA CODES

MANUFACTURER SUPPLEMENTAL NOTES: For industrial use only. Keep out of reach of children. Failure to use caution may cause serious injury or illness. Never siphon by mouth.

DATA SOURCES: Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

ADDITIONAL SDS INFORMATION: This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

GENERAL STATEMENTS:

Key or Legend to abbreviations and acronyms

NTP Carcinogenicity Status: 1 - Known to be Human Carcinogens; 2 - Reasonably anticipated to be a human carcinogen

AIHA - American Industrial Hygiene Association

ACGIH - American Conference of Governmental Industrial Hygienists

CASRN - Chemical Abstract Services Registry Number

CFR - Code of Federal Regulations

D.O.T. - United States Department of Transportation

IARC - International Agency for Research on Cancer

MSHA - Mine Safety and Health Administration

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

ppm - Parts per million

mg/m³ - milligram per cubic meter

kg - kilogram

L or l - Liter

n.o.s. - not otherwise specified

Lbs. - Pounds

mm²/s - millimeters squared per second

F-A, S-F - General fire schedule, Spill schedule for water-soluble marine pollutants

F-A, S-B - General fire schedule. Spill schedule Bravo for corrosive substances

F-E, S-E - Fire schedule Echo (non-water reactive flammable liquids). Spill schedule Echo (non-water-reactive flammable liquids)

PMCC - Pensky-Martens Closed Cup

LC₅₀ - Lethal Concentration 50 (concentration in water having a 50% chance of causing death to aquatic life)

EC₅₀ - Effective Concentration that causes 50% inhibition in growth or mobilization

OECD - Organisation for Economic Cooperation and Development

SOCMI - Synthetic Organic Chemical Manufacturing Industry

VOC - Volatile Organic Compound

MANUFACTURER DISCLAIMER: The conditions or methods of handling, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility for loss, damage or expense arising out of, or in any way connected with the handling, storage, use, or disposal of the product.