

# SAFETY DATA SHEET

Issue Date: 7/21/2022 Revision Date: 4/11/2023

Version 4

## 1. IDENTIFICATION

Product identifier

Product Name BAFR

Other means of identification

SDS # VTGO-004

Recommended use of the chemical and restrictions on use

Recommended Use Oilfield Friction Reducer and Viscosifier

Details of the supplier of the safety data sheet

Vendetta Chemical Solutions, LLC 4000 South CR 1140 Midland Texas, 79706 Contact@VendettaChems.com

Emergency telephone number

**Company Phone Number** 1-432-237-1451 **Emergency Telephone** 1-855-596-6516

## 2. HAZARDS IDENTIFICATION

**Appearance** Viscous liquid, Milky **Physical state** Viscous liquid

**Odor** Aliphatic

Classification of the substance or mixture

Classification according to paragrah (d) of 29 CFR 1910.1200: Not Classified

Label elements

Labeling according to paragraph (f) of 29 CFR 1910.1200: None

Hazard symbol(s) None

Signal word None

Hazard statements(s) None

Precautionary statement(s) None

Other Hazards

Spills produce extremely slippery surfaces



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %
Petroleum Distilates, Hydrotreaed Light	64742-47-8	20-60%

<sup>\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST AIDE MEASURES

#### **Description of first aid measures**

Eye Contact

Get prompt medical attention. Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Alternatively, rinse immediately with Diphoterine

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. In case of persistent skin irritation, consult a physician.

Inhalation No hazards which require special first aid measures. Move to fresh air

Ingestion Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control centre

immediately.

### Most important sysmptoms and effects, both acute and delayed

None under normal use.

#### Indication of any immediate medical attention and special treatment needed

None reasonably foreseeable.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water. Water Spray. Foam. Carbon dioxide (CO2). Dry powder.

Warning! Spills produce extremely slippery surfaces.

#### Unsitable extinguishing media

None known

## Special hazards arising from the substance or mixture

### Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (Nox), carbon oxides (Cox), sulfur oxides (Sox). Hydrogen cyanide (hydrocloric acid) may be produced in the event of combustion in an oxygen deficient atmosphere

#### Advice for firefighters

#### Protective measures

Wear self-contained breathing apparatus and protective suit

## Other Information

Spills produce extremely slippery surfaces.



<sup>\*\*</sup>Notes - Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5mm2/s measured at 40C.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Spills produce extremely slippery surfaces. Do no touch or walk through spilled material.

#### Protective Equipment

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

#### **Emergency Procedures:**

Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

#### **Environmental precautions**

As with all chemical products, do not flush into surface water

#### Method and material for containment and cleaning up

Small Spills

Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large Spills

Do not flush with water. Dam up. Soak up with inert absobent material. Clean up promptly by scoop or vacuum.

Residues

After cleaning, flush away traces with water.

#### Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal consideration

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using do not eat, drink or smoke.

#### Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

#### Specific end use(s)

This information is not available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Appropriate engineering controls

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

#### **Environmental exposure controls**

Do not allowed unctrolled discharge of product into the environment



#### Individual protection measures, such as personal protective equipment (PPE)

**Eye Protection** Safety glasses with side shields

**Skin Protection** Hand protection: PVC or other plastic material gloves.

Other: Wear coveralls and/or chemical apron and rubber footwear where physical

contact can occur

**Respiratory Protection** No personal respiratory protective equipment normally required

Additional Advice Wash hands before breaks and at the end of workday. Wash hands before breaks and

immediately after handling the product. Handle in accordance with good industrial

hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Viscous liquid

AppearanceViscous liquid, MilkyOdorAliphaticColoropaqueOdor ThresholdNot determined

<u>Property</u> <u>Values</u>

pH Not applicable

Melting point / freezing point<5°C</th>Boiling point / boiling range>100°CFlash pointDoes not flashEvaporation RateNot determinedFlammability (Solid, Gas)Not determined

Flammability Limit in Air

**Upper flammability or**Not expected to create explosive atmospheres

explosive limits

**Lower flammability or**Not expected to create explosive atmospheres

explosive limits

 Vapor Pressure
 2.3 kPa @ 20°C

 Vapor Density
 0.804 g/L @ 20°C

Specific Gravity (g/mL @ 25C) 1.06 - 1.10

Relative density 1.0-1.2 (See Technical Data Sheet or Product

Specifications for a more precise value, if available)

Solubilit(ies)Completely misciblePartition coefficientNot applicableAutoignition temperatureNot determined

**Decomposition temperature** > 150°C

Viscosity > 20.5 mm2/s @ 40°C

Explosive properties

Not expected to be explosive based on the structure

Oxidizing properties

Not expected to be explosive based on the structure

## 10. STABILITY AND REACTIVITY

#### Reactivity

Stable under recommended sotrage conditions

#### Chemical stability.

Stable under recommended sotrage conditions



#### Possibility of hazardous reactions

None known

#### **Conditions to Avoid**

Protect from frost, heat and sunlight

#### **Incompatible materials**

Incompatible with oxidizing agents

#### Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (Nox), carbon oxides (COx), sulfer oxides (SOx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

## 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### Information on the product as supplied:

Acute oral toxicity LD50/oral/rat > 5000 mg/kg (Estimated)
Acute dermal toxicity LD50/dermal/rat > 5000 mg/kg (Estimated)

Acute inhalation toxicity

The product is not expected to be toxic by inhalation

Skin corrosion/irritation Non-irritating to skin

Serious eye damage/eye irritation Not irritating
Respiratory/skin sensitisation Not sensitizing
Mutagenicity Not mutagenic
Carcinogenicity Not carcinogenic

Reproductive toxicity Not toxic for reporduction

STOT - Single exposure No known effects STOT - Repeated exposure No known effects

Aspiration hazard Due to the viscosity, the product does not present an aspiration

hazard

#### Relevant information on the hazardous components:

Distillates (petroleum), hydrotreated light

Acute oral toxicity LD50/oral/rat > 5000 mg/kg (OECD 401)
Acute dermal toxicity LD50/dermal/rat > 5000 mg/kg (OECD 402)

Acute inhalation toxicity LC0/inhalation/4 hours/rat >= 4951 mg/m3 (OCED 403) (Based on

results obtained from tests on analogous products)

Skin corrosion/irritation Not irritating (OECD 404)

Repeated exposure may cause skin dryness or cracking

Serious eye damage/eye irritation Not irritating (OECD 405)

Respiratory/skin sensitisation By analogy with similar products, this product is not expected to be

sensitizing (OECD 406)

Mutagenicity Not mutagenic (OECD 471, 473, 474, 476, 478, 479) Carcinogenicity Carcinogenicity study in rats (OECD 451): Negative

Reproductive toxicity By analogy with similar substances, this substance is not expected to

be toxic for reproduction.

NOAEL/rat = 300 ppm (OECD 421)

STOT - Single exposure No known effects

STOT - Repeated exposure Based on available data, product is not expected to demonstrate

chronic toxic effects. NOAEL/oral/rat/90 days >= 3000 mg/kg/day (OECD 408) (Based on results obtained from test on analogous



Aspiration hazard

May be fatal if swallowed and enters airways

## 12. ECOLOGICAL INFORMATION

#### Toxicity

Information on the product as supplied

Actue toxicity to fish LC50/Oncorhynchus mykiss/96 hours > 100 mg/L (Estimated)
Acutre toxicity to invertebrates EC50/Daphnia magna/40 hours > 100 mg/L (Estimated)

LCSO/Alass/72 have > 100 mg/( (Takimata))

Acute toxicity to algae IC50/Algae/72 hours > 100 mg/L (Estimated)

Chronic toxicity to fish

Chronic toxicity to invertibrates

Toxicity to microorganisms

Effects on terrestrial organisms

No data available

#### Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Actue toxicity to fish LC0/Oncorhynchus mykiss/96 hours > 1000 mg/L (OECD 203)

Acutre toxicity to invertebrates EC0/Daphnia magna/48 hours > 1000 mg/L (OECD 202)

Acute toxicity to algae IC0/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L (OECD

201)

Chronic toxicity to fish NOEC/Oncorhynchus mykiss/28 days > 1000 mg/L
Chronic toxicity to invertibrates NOEC/Daphnia magna/21 days > 1000 mg/L
Toxicity to microorganisms EC50/Tetrahymena pyriformis/48h > 1000 mg/L

Effects on terrestrial organisms No data available

Sediment toxicity No data available. Readily biodegradable, exposure to sediment is

unlikely

#### Persistence and degradability

Information on the product as supplied

Degradation Not redily biodegradable
Hydrolysis Noes not hydrolyse
Photolysis No data available

## Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Degradation Readily biodegradable. 67.6% / 28 days (OECD 301 F); 68.8% / 28

days (OECD 306); 61.2% / 61 days (OECD 304A)

Hydrolysis Does not hydrolyse Photolysis No data available

#### **Bioaccumulative potential**

#### Information on the product as supplied

The product is not expected to bioaccumulate

Partition co-efficient (Log Pow) Not applicable Bioconcentration factor (BCF) No data available

#### Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Partition co-efficient (Log Pow) 3 - 6

Bioconcentration factor (BCF)

No data available



#### Mobility in soil

#### Information on the product as supplied

No data available

#### Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Koc: No data available

#### Other adverse effects

None known

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

## Waste from residues/unused products

Dispose in accordance with local and national regulations

#### Contaminated packaging

Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations

#### Recycling

In accordance with local and national regulations

## 14. TRANSPORT INFORMATION

#### United States Department of Transportation (U.S. DOT)

Not regulated as a hazardous material or dangerous goods for transportation.

## International Maritime Dangerous Goods (IMO / IMDG)

Not regulated as a hazardous material or dangerous goods for transportation.

#### **International Air Transport Association (IATA)**

Not regulated as a hazardous material or dangerous goods for transportation.

## 15. REGULATORY INFORMATION

## Safety, health and enironmental regulations/legislation specific for the substance or mixture

## Information on the product as supplied

TSCA Chemical Substances Inventory

All components of this producrt are either listed as active on the inventory or are exempt from listing

#### US SARA Reporting Requirements

SARA (Section 311/312) hazard class: Not concerned

## **SARA Title III Sections**

Section 302 (TPQ) - Reportable Quantity: Not concerned Section 304 - Reportable Quantity: Not concerned



#### Clean Water Act

Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity: Not concerned

#### Clean Air Act

Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity: Not concerned

#### **CERCLA**

Hazardous Substances List (40 CFR 302.4) - Reportable Quantity: Noot concerned

#### **RCRA** status

Not RCRA hazardous

#### California Proposition 65 Information

WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide

16. OTHER INFORMATION						
<u>NFPA</u>	Health hazards	Flammability	Reactivity 0	Other -		
<u>HMIS</u>	Health hazards	Flammability	Reactivity	PPE Code:		

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#### **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

**End of Safety Data Sheet** 

