

# SAFETY DATA SHEET



## SECTION 1: IDENTIFICATION

**Product Name:** Oil Safe AR® **Company Name:** OptiFrac Chemical Services  
**General Description:** Acid Replacement **Address:** 1000, 639 – 5th Ave SW.  
Calgary, AB, Canada  
**For General Information:** 1-403-237-8900 T2P 0M9

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CANUTEC at 1-613-996-6666

## SECTION 2: HAZARD IDENTIFICATION

### GHS Classification of the Substance

Corrosive to Metals Category 1  
Eye Irritation Category 2B

### GHS Label Elements

**Signal Word:** Warning



### Symbols:

**Hazard Statements:** H290 May be corrosive to metal.  
H320 Causes eye irritation.

**Prevention Statements:** P234 Keep only in original packaging.

**Response Statements:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists, get medical attention.  
P390 Absorb spillage to prevent material damage.

Hazards not otherwise classified (HNOC or not covered by GHS) – Not Applicable

**Other Information:** May cause mild skin irritation if not rinsed off with soap and water.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS Number	% by Weight
Protonated Hydrolyzed Protein	N/A	10-40%

\*A claim for exemption has been filed under the *Hazardous Materials Information Review Act* effective March 1, 2018. Registry #11974.

### Substances

There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to the health or environment thus do not require reporting in this section.

### Mixtures

Not applicable

**SECTION 4: FIRST AID MEASURES****EMERGENCY OVERVIEW****Potential Health Effects**

- Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling.
- Eye:** May cause eye irritation.
- Skin:** May cause skin irritation. Low hazard for usual industrial handling.
- Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.
- Chronic:** No information found.

**FIRST AID MEASURES**

- EYES:** Flush with water for several minutes while holding eyelids open. Call a physician if irritation persists. If worn, remove contacts after first 5 minutes.
- SKIN:** Remove contaminated clothing. Wash exposed area with soap and water when convenient. Call a physician if rash or other symptoms develop. Launder clothes before reuse.
- INGESTION:** If ingested, may cause loose stools. Drink plenty (2-3 glasses) of water and immediately consult a physician. Do not induce vomiting.
- INHALATION:** Remove to fresh air. If symptoms persist, seek medical attention.

**SECTION 5: FIRE FIGHTING MEASURES****Extinguishing Media**

Suitable extinguishing media – product does not support combustion, use extinguishing agent for type of surrounding fire.

**Special Hazards Arising from the Substance or Mixture**

No data available.

**Advice for Firefighters**

Wear a self-contained breathing apparatus for firefighting if necessary.

**Further Information**

No data available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods for Containment:** Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
- Methods for Cleaning Up:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Never return spills in original containers for re-use. Product can be neutralized with water or soda ash in accordance with local, provincial (state) and federal regulations. Always sample spill and calculate via titration the proper amount of neutralizing material to be used to properly neutralize.

# SAFETY DATA SHEET



## SECTION 7: HANDLING AND STORAGE

**General Handling and Storage Precautions:** As with all chemical products and material, take care as to where and how you store them.

**Shelf Life:** No known limit. Recommended: Use within 1 year.

**Special Sensitivity:** None

**Storage and Other Precautions:** Keep in a closed container away from incompatible materials.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** No data available.

**Ventilation:** Normal ventilation is generally adequate.

**Protective Equipment:** Wear safety glasses. If splashes are likely to occur, wear goggles or a face shield. Wear protective gloves and clothing (coveralls).

**Respiratory Protection:** Not normally required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Properties Evaluated at Ambient Temperature</b>	<b>Initial Boiling Point:</b> 100°C (212°F)
<b>Appearance:</b> Colorless to Slight Yellow Liquid	<b>Initial Freeze Point:</b> -31.6°C (-24.88°F)
<b>Odor:</b> Odorless to Mild Soapy Odor	<b>Flash Point:</b> N/A
<b>Specific Gravity:</b> 1.14 ± 0.04	<b>Solubility:</b> Complete/100%

**Note:** These physical properties are typical values for this product and not specifications. No other data available.

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:** No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Likely routes of Exposure:** Skin contact, eye contact, ingestion.

**Inhalation:** May cause respiratory tract irritation. Low hazard for typical industrial handling.

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May cause skin irritation.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation.

# SAFETY DATA SHEET

**LD50:**

Oral, rat: LD50 = >3350 mg/kg

**Carcinogenicity:**

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:** N/A

## SECTION 12: ECOLOGICAL INFORMATION

**Ecological Studies:**

Test Procedure: Hach Reactor Digestion method for waste water and sea water. Hach Reactor Digestion Method is a semi-micro adaptation of the standard methods.

Test Results conclude Oil Safe AR® was found to be 100% Biodegradable  
COD = 11,000 mg/L, BOD = 150 mg/L @ 5 days and 170 mg/L @ 10 days

No other data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Canada**

Dispose of in accordance with federal, provincial and local regulations. Empty containers may retain product residue. Dispose of empty totes, drums or pails at an approved waste management facility.

**United States**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification prior to disposal.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed

## SECTION 14: TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Customer is urged to consult 49 CFR 100-177, IMDG, IATA, EC, United Nations TDG, WHMIS (Canada), and Canadian TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods. Typical proper shipping names for this product are:

**US Department of Transportation (DOT):**

Not Regulated as a Hazardous Material for ground transportation only as per exemption 49CFR 173.154(d).

**Canadian TDG (Transportation of Dangerous Goods):**

UN 1760, Corrosive Liquid, N.O.S., (Acid Replacement), Class 8, PG III (by Aluminum Corrosion Only)

Note: The original manufacturer, formulator and/or blender has determined this product to be corrosive to Aluminum as per TDG criteria, standards and/or regulations, >6.25mm/year at 55°C.

**IMO (Water Transportation):**

Not Evaluated.

**IATA (Air Transportation):**

Not Evaluated.

**Rail:**

Not Evaluated.

# SAFETY DATA SHEET



**Marine Pollutant:** This product is not a marine pollutant.

**Special Precautions:** None.

## SECTION 15: REGULATORY INFORMATION

### United States of America Federal Regulations

#### TSCA

All components of this product are listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### United States of America State Regulations

This chemical is not present on state lists from CA, PA, MN, MA, FL, or NJ.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### REACH Registration

The component in this product has been registered according to Article 2 REACH Regulation (EC) No. 1907/2008.

#### European Economic Community Classification per Directive 67/548/EEC or 1999/45/EC

Not Classified

Risk Phrases:

None allocated.

Safety Phrases:

S2 - Keep out of reach of children.

S24/25 - Avoid contact with skin and eyes.

**WGK, Germany (Water danger/protection):**

No data available.

### Canadian Regulations

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

#### Canada - WHMIS

WHMIS 1988: Class E – by aluminum corrosion only.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all of the information required by those regulations.

#### Canadian Ingredient Disclosure List – NPRI

Oil Safe AR® contains no reportable ingredients as per the National Pollutant Release Inventory substance lists.

**SECTION 16: OTHER INFORMATION**

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

**Revision Date:** September 2, 2022.