

# MATERIAL SAFETY DATA SHEET



910, 640 - 5<sup>th</sup> Ave. SW  
CALGARY AB. T2P 3G4  
(403) 237-8900

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: **NanoDissolve Gel ®**

General Description: Reliquefaction Compound

Company Name: OptiFrac Chemical Services  
910, 640 – 5<sup>th</sup> Ave. SW  
Calgary AB T2P 3G4

Telephone Number: 1-403-237-8900  
For Chemical Emergency ONLY (spill, leak, fire, exposure or accident),  
call CANUTEC at 1-613-996-6666

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

Date: April 24, 2015

| HMIS Rating         |   |
|---------------------|---|
| Health              | 1 |
| Fire                | 1 |
| Reactivity          | 0 |
| Personal Protection | A |

### Rating Scale

4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant



## SECTION 2: HAZARD IDENTIFICATION

### Classification of Substance or Mixture

Product Definition: Mixture

Classification per Regulation (EC) No. 1272/2008 [CLP]: Not classified

### Label Elements

Labeling per Regulation (EC) No. 1272/2008 [CLP]

Hazard Symbols: Non allocated

Signal Word: Non allocated

Hazard Statement(s): Non allocated

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Formula **Mixture**

Components **CAS-No**

Proprietary/Trade Secret Claimed N/A

### **Substances**

The identity of this material is a trade secret (29 CFR 1910.1200(i)) and is available to any attending physician, paramedical personnel and/or spill response personnel in the case of an emergency. Proprietary ingredient is non-toxic.

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

**Mixtures**

Not applicable.

**SECTION 4: FIRST-AID MEASURES****Potential Health Effects**

**Inhalation:** Can enter lungs and cause damage. Excessive or prolonged breathing of this material may cause central nervous system side effects. Central nervous system side effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness or confusion.

**Eye Contact:** May cause eye irritation; not expected to cause prolonged or significant eye irritation.

**Skin Contact:** May cause skin irritation. Prolonged skin contact may cause drying or de-fatting of skin. Not expected to be harmful to organs if absorbed through skin. Contact with skin is not expected to cause allergic response.

**Ingestion:** Harmful or fatal if swallowed. Due to its low viscosity, this material can directly enter the lungs, if swallowed, or subsequently vomited. Once in lungs, it is very difficult to remove and can cause injury and death.

**Chronic:** No information found.

**First Aid Measures**

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Eyes:** Flush with water for at least 15 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 for at least 15 minutes. Launder clothes before reuse. Call a physician if rash or other symptoms develop.

**Ingestion:** If ingested, do not induce vomiting. Drink plenty (2-3 glasses) of water or milk and immediately get medical attention. Never give anything by mouth to an unconscious person.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Flash Point:** >95 °C/>203 °F

**Auto Ignition Temperature:** Lowest known >204.4 °C/>400 °F

**Flammability Limits:** Lower: >0.6 Upper: >5.4

**Suitable Extinguishing Media:** Treat as oil fire. CO<sub>2</sub>, dry chemical, foam. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Rags soaked with any solvent present a fire hazard and should always be stored in UL listed and covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions can lead to spontaneous combustion. This product contains antioxidants to retard oxidation.

## 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 absorbents and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Never return spills to original containers for re-use. Eliminate all sources of ignition from the affected areas.

## 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 container closed. Do not store near heat, sparks or open flames. Use or store in a well-ventilated area. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed of.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

- Eye Protection:** Safety glasses and/or goggles are always recommended to minimize risk to an employee's eyes.
- Skin Protection:** Protective clothing is suggested when working with any chemical. Selection of protective clothing may include gloves, apron, boots and facial protection depending on the operation being conducted.
- Respiratory Protection:** Under normal conditions a respirator is not required. In confined or poorly ventilated areas, wear a NIOSH approved respirator if exposure to harmful levels of airborne material may occur. Use the following elements for air purifying respirators: Organic Vapor.
- Ventilation:** Use product in a well-ventilated area. If operator generates airborne material, use process enclosures, local exhaust ventilation or engineering controls to control exposure.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Properties evaluated at ambient temperature.

|                          |                               |                               |                        |
|--------------------------|-------------------------------|-------------------------------|------------------------|
| <b>Appearance:</b>       | Clear yellowish gelled liquid | <b>Odor</b>                   | Faint hydrocarbon odor |
| <b>Flash Point:</b>      | >95 °C / >203 °F              | <b>Initial Freeze Point:</b>  | -18 °C / 0 °F          |
| <b>Solubility:</b>       | Not soluble                   | <b>Initial Boiling Point:</b> | >204.4 °C / >400 °F    |
| <b>Specific Gravity:</b> | 0.78 ± 0.04                   |                               |                        |

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

**SECTION 10: STABILITY AND REACTIVITY**

|  |   |
|--|---|
| <b>Chemical Stability:</b>                     | Stable under normal temperatures and operating pressures. |
| <b>Conditions to Avoid:</b>                    | No data available.  |
| <b>Incompatibilities with Other Materials:</b> | May react with strong acids or strong oxidizing agents.   |
| <b>Hazardous Polymerization:</b>               | Will not occur.   |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|                              |  |
|------------------------------|--|
| <b>LD50:</b>                 | Oral, rat: LD50=No information available.      |
| <b>Carcinogenicity:</b>      | Not listed by ACGIH, IARC, NTP, or CA Prop 65. |
| <b>Epidemiology:</b>         | No information available.                      |
| <b>Teratogenicity:</b>       | No information available.                      |
| <b>Reproductive Effects:</b> | No information available.                      |
| <b>Mutagenicity:</b>         | No information available.                      |
| <b>Neurotoxicity:</b>        | No information available.                      |
| <b>Other Studies:</b>        | N/A  |

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecological Studies:** Please call the non-emergency telephone number if this information is required.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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.

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

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

**SECTION 14: TRANSPORT INFORMATION**

This material is not regulated for transport.

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

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 and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods. Typical proper shipping names for this product are:

|  |                                       |
|--|---------------------------------------|
| <b>US Department of Transportation (DOT):</b>            | Non-Regulated as a Hazardous Material |
| <b>Canadian TDG (Transportation of Dangerous Goods):</b> | Not Regulated as a Hazardous Material |
| <b>IMO (Water Transportation):</b>                       | Not Regulated as a Hazardous Material |
| <b>IATA (Air Transportation):</b>                        | Not Regulated as a Hazardous Material |
| <b>Rail:</b>   | Not Evaluated                         |

**SECTION 15: REGULATORY INFORMATION**

**US 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.

**State Regulations**

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

**California Prop 65**

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

## European/International Regulations

European Labeling in Accordance with EC Directives

### 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

### Canada - DSL/NDSL

This product is listed on Canada's DSL List.

### Canada - WHMIS

WHMIS: Not available.

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

## SECTION 16: OTHER INFORMATION

### Disclaimer

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.