## SECTION 1: IDENTIFICATION OF PRODUCT/COMPANY/SUPPLIER

### 1.1 Product identifiers

**Product name:** Winter Cold Flow Anti-Gel

### 1.2 Relevant identified uses of the product and restrictions on use

**Recommended uses:** Diesel Fuel Additive
**Restrictions on use:** For Industrial and Professional Use

### 1.3 Details of the supplier of the safety data sheet

**Company name:** Opti-Lube Inc.
**Address:** 1646 W Business Park Drive, Suite B
**City/State/Zip:** Orem, UT 84058, USA
**Website:** www.opti-lube.com
**Phone number:** 801-491-3717

### 1.4 Emergency response number

**Hazmat Line:** +1 656 208 0809

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 GHS Hazard classification/statements according to 29 CFR 1910.1200 (OSHA):

**Flammable Liquids, Category 3:** H226 – Flammable liquid and vapor
**Aspiration Hazard, Category 1:** H304 – May be fatal if swallowed and enters airways
**Skin Irritation, Category 2:** H315 – Causes skin irritation
**Eye Irritation, Category 2A:** H319 – Causes serious eye irritation
**Carcinogenicity, Category 2:** H351 – Suspected of causing cancer
**Aquatic Chronic, Category 2:** H411 – Toxic to aquatic life with long-lasting effects

### 2.2 GHS Label Elements according to 29 CFR 1910.1200 (OSHA):

**Pictogram:**

**Signal word:** Danger!

### 2.3 GHS Precautionary Statements according to 29 CFR 1910.1200 (OSHA):

**P203:** Obtain, read, and follow all safety instructions before use.
**P210:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
**P233:** Keep container tightly closed.
**P240:** Ground and bond container and receiving equipment.
**P241:** Use explosion proof electrical, ventilating, lighting equipment.
**P242:** Use only non-sparking tools.

**P243:** Take precautionary measures against static discharge.
**P264:** Wash hands/skin thoroughly after handling.
**P273:** Avoid release to the environment.
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.
**P301+P310:** IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
**P302+P352:** IF ON SKIN: Wash with plenty of soap and water.
**P303+P361+P353:** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
**P332+P313:** If skin irritation occurs: Get medical advice/attention.
**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 advice/attention.
**P308+P313:** IF exposed or concerned: Get medical advice/attention.
**P370+P378:** In case of fire: Use water fog, foam, dry chemical powder, and $CO_2$ for extinction.
**P403+P235:** Store in a well-ventilated place. Keep cool.
**P405:** Store locked up.
**P501:** Dispose of contents/container to an approved waste disposal plant.

### 2.4 Other Hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

| Chemical Name | CAS Number | Concentration |
|---|---|---|
| 2-Ethylhexyl Nitrate | 27247-96-7 | 15-40% |
| Solvent Naphtha, Heavy Aromatic | 64742-94-5 | 7-13% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5-13% |
| Solvent Naphtha, Light Aromatic | 64742-95-6 | 1-5% |
| Xylene | 1330-20-7 | 0.5-5% |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.1-1.5% |
| Cymenes | 25155-15-1 | 0.1-1.5% |
| Naphthalene | 91-20-3 | 0.1-1.5% |
| 2,6-Di-tert-butyphenol | 128-39-2 | 0.1-1% |
| Cumene | 98-82-8 | 0.5-1.5% |
| 2-Ethylhexanol | 104-76-7 | 0.5-1.5% |

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**General:** Take off contaminated clothing immediately. If exposed or concerned, get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

**If Inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**If Swallowed:** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter the lungs.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists.

**Skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

### 4.2 Most important symptoms and effects, both acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness, headache, nausea, and vomiting. Direct contact with eye may cause temporary irritation.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable methods:** Water fog, foam, and carbon dioxide ($CO_2$). Dry chemical powder, carbon dioxide, sand, or earth can be used for small fires.

**Unsuitable methods:** Do not use water jet as an extinguisher as this may spread the fire.

### 5.2 Specific hazards arising from the substance/mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distances to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce the potential for static discharge, use proper grounding and bonding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased in the presence of small quantities of water and other contaminants. Material may float and ignite on the surface of water. During fire, gases hazardous to health may be formed.

### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. In case of fire and/or explosion, do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames I immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mists or vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage truck or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of this SDS.

### 6.2 Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses, or onto the ground. Use appropriate containment to avoid environmental contamination.

### 6.3 Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames I immediate area). Keep combustibles (wood, paper, oil) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent product from entering drains.

**Large Spill:** Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like sand or vermiculite to soak up the material and place in a suitable container for later disposal. Following product recovery, flush area with water.

**Small Spill:** Absorb with earth, sand, or other non-combustible material and transfer to containers for safe disposal. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to their original container for reuse. Put material in a suitable, covered, and labeled containers. For waste disposal, see Section 13 of this SDS.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety instructions have been read and understood. Do not handle, store, or open near open flames, sources of heat, or sources of ignition. Protect material from direct sunlight. When using, do not smoke. Use explosion-proof general and local

exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dusts and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include, but are not limited to mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, and vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling this product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mists or vapors. Should be handled in closed systems if possible. Wear appropriate protective equipment. Wash hands thoroughly after handing. Avoid release to the environment. Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any compatibilities

Store locked up. Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate all sources of ignition. Ground and bond container and receiving equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in a tightly closed container. Store in a well-ventilated area. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of this SDS).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Controls

**Occupational exposure limit values:**

| Chemical Name | Source | Value |
|---|---|---|
| Solvent Naphtha, Heavy Aromatic | ACGIH | TWA: 200 mg/m$^3$ |
| Naphthalene | OSHA | TWA: 10 ppm (50 mg/m$^3$) |
| | ACGIH | TWA: 10 ppm (52 mg/m$^3$) |
| | NIOSH | TWA: 10 ppm (50 mg/m$^3$) |
| 1,2,4-Trimethylbenzene | OSHA | TWA: 25 ppm (125 mg/m$^3$) |
| | ACGIH | TWA: 10 ppm (52 mg/m$^3$) |
| | NIOSH | TWA: 25 ppm (125 mg/m$^3$) |
| 1,3,5-Trimethhylbenzene | OSHA | TWA: 25 ppm (125 mg/m$^3$) |
| | ACGIH | TWA: 10 ppm (123 mg/m$^3$) |
| | NIOSH | TWA: 25 ppm (125 mg/m$^3$) |
| Xylene | OSHA | TWA: 100 ppm (435 mg/m3) |
| | ACGIH | TWA: 20 ppm |
| | NIOSH | TWA: 100 ppm (435 mg/m$^3$) |
| Cumene | OSHA | TWA: 50 ppm (245 mg/m$^3$) |
| | ACGIH | TWA: 5 ppm |
| | NIOSH | TWA: 50 ppm (245 mg/m$^3$) |

**Engineering controls:** Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### 8.2 Personal Protective Equipment

**Hand protection:** Wear appropriate chemical resistant gloves.
**Eye/Face protection:** Wear safety glasses with side shields (or goggles) and a face shield.
**Skin and body protection:** Wear suitable protective clothing. Use of an impervious apron is recommended. Wear appropriate thermal protective clothing when necessary.
**Respiratory protection:** Chemical respirator with organic vapor cartridge and full facepiece. A NIOSH approved air purifying respirator with organic vapor cartridge may be used, but protection is limited. Use a positive pressure supplied air respirator if there is any potential for uncontrolled release.
**Hygiene measures:** Observe any medical surveillance requirements. When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance:** | Clear Liquid |
| **Color:** | Amber |
| **Odor:** | Not determined |
| **Odor Threshold:** | Not determined |
| **pH** | Not determined |
| **Melting Point:** | Not determined |
| **Boiling Point:** | Not determined |
| **Flash Point:** | 140 °F (60 °C) |
| **Auto-ignition Temperature:** | Not determined |
| **Upper/Lower Explosive Limits:** | Not determined |
| **Vapor Pressure:** | Not determined |
| **Evaporation Rate:** | Not determined |
| **Flammability (Solid, Gas):** | Not determined |
| **Specific Gravity:** | 0.906 (Water = 1) |
| **Relative Density:** | 0.905 g/mL (7.55 lbs/gal) |
| **Solubility in Water:** | Not determined |
| **Partition Coefficient (n-octanol / water):** | Not determined |
| **Decomposition Temperature:** | Not determined |
| **Viscosity** | 2.08 cSt @ 40 °C (104 °F) |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport.

### 10.2 Chemical stability

Material is stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

No dangerous reactions known under conditions of normal use.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** Not classified based on available information.
**Skin corrosion/irritation:** Causes skin irritation.
**Serious eye damage/irritation:** Causes serious eye irritation.
**Respiratory/Skin sensitization:** Not classified based on available information.
**Germ cell mutagenicity:** No data is available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
**Carcinogenicity**: Suspected of causing cancer.

| Chemical Name | Source | Value |
|---|---|---|
| Cumene | IARC | Group 2b |
| Naphthalene | IARC | Group 2b |

**Reproductive toxicity**: Not classified based on available information.
**Specific target organ toxicity - single exposure:** Not classified based on available information.
**Specific target organ toxicity - repeated exposure:** Not classified based on available information.
**Aspiration hazard:** May be fatal if swallowed and enters airways.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Toxic to aquatic life with long-lasting effects.

| Chemical Name | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---|---|---|---|
| 2,6-Di-tert-butylphenol | 1.40 - Pimephales promelas | 0.45 - Daphnia magna | 1.20 (96 hr) - Pseudokirchneriella subcapitata |

| | | | |
|---|---|---|---|
| Solvent Naphtha, Heavy Aromatic | 2.50 - Oncorhynchus mykiss | 1.10 - Daphnia magna | 1.30 (72 hr) - Pseudokirchneriella subcapitata |
| Naphthalene | 1.60 - Oncorhynchus mykiss | 1.96 - Daphnia magna | 0.40 (72 hr) - Skeletonema costatum |
| Solvent Naphtha, Light Aromatic | 9.20 - Oncorhynchus mykiss | 3.20 - Daphnia magna | 2.90 (72 hr) - Selenastrum capricornutum |
| 1,3,5-Trimethylbenzene | 12.52 - Carassius auratus | 6.00 - Daphnia magna | 25.00 (48 hr) - Scenedesmus quadricauda |
| Cumene | 2.70 - Oncorhynchus mykiss | 4.00 - Daphnia magna | 2.60 (72 hr) - Selenastrum capricornutum |
| 2-Ethylhexanol | 17.10 - Leuciscus idus melanotus | 39.00 - Daphnia magna | 16.60 (72 hr) - Scenedesmus quadricauda |
| 2-Ethylhexyl nitrate | 1.88 - Dania rerio | 0.83 - Daphnia magna | 1000.00 (72 hr) - Pseudokirchneriella subcapitata |

### 12.2 Persistence and Degradability

Expected to be inherently biodegradable.

### 12.3 Bioaccumulative potential

Potential bioaccumulation.

### 12.4 Mobility in soil

The product is insoluble in water.

### 12.5 Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

**Waste Disposal:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Waste codes should be assigned in discussion between the user, the producer, and the waste disposal company. Dispose of in accordance with all Local, State, and Federal regulations.

**Contaminated Packaging:** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Since emptied containers may retain product residues, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 Transport information

**UN Number:** UN 1993
**UN Proper Shipping Name:** Flammable Liquid, N.O.S.
**Transport Hazard Class:** Class 3
**Packing Group:** III
**Marine Pollutant:** Environmental Hazardous Substance

*This material is not regulated for US DOT transportation in quantities less than 119 gallons per 49 CFR 173:150 (f)(1). Does not apply to transportation by vessel or aircraft.

*Per 49 CFR 171.4(c)(1) - Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants does not apply to non-bulk packaging (<119 gallons) by motor car, rail, or aircraft.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health, and environment regulations/legislation specific for substance or mixture

**US Federal Regulations:** This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substance Control Act (TSCA) Inventory:** All substances in this product are either listed or are exempt from listing on the TSCA Inventory.

**Comprehensive Response Compensation and Liability Act (CERCLA):**
Naphthalene (CAS 91-20-3)
Xylene (CAS 1330-20-7)
Cumene (CAS 98-82-8)

**SARA 302/304 Emergency Planning & Notification:** Not regulated.

**SARA 311/312 Hazard:** See Section 2 of this SDS for GHS hazards associated with this product.

**SARA 313 (TRI Reporting):**

| Chemical Name | CAS Number | % by Weight |
|---|---|---|
| Naphthalene | 91-20-3 | 0.1 - 1 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 7 - 13 |
| Xylene | 1330-20-7 | 0.1 - 1.5 |
| Cumene | 98-82-8 | 0.1 - 1 |

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:**
Naphthalene (CAS 91-20-3)
Xylene (CAS 1330-20-7)
Cumene (CAS 98-82-8)

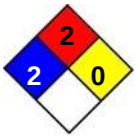
**Clean Water Act (CWA) 311:**
Xylene (CAS 1330-20-7)
Naphthalene (CAS 91-20-3)

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):**
This product can expose you to chemicals including Naphthalene and Cumene, which are known to the State of California to cause cancer. This product will not expose you to chemicals known to the State of California to cause birth defects or reproductive harm. For more information go to (Proposition 65 List of Chemicals).

## SECTION 16: OTHER INFORMATION

### 16.1 General information

**Revision Date:** 23-Feb-2026
**Previous Revision:** 9-June-2020
**Version number:** 2.0
**National Fire Protection Association (NFPA) Rating:**




### 16.2 Full Text of Abbreviations

CAS – Chemical Abstract Service
GHS – Globally Harmonized System
CFR – Code of Federal Regulations
OSHA – Occupational Safety and Health Administration
NIOSH – The National Institute for Occupational Safety and Health
ACGIH – American Conference of Governmental Industrial Hygienists
TWA – Time Weighted Average
LC50 – Lethal Concentration 50
EC50 – Effective Concentration 50
ErC50 – Reduction in Growth Rate
UN – United Nations
DOT – Department of Transportation
TRI – Toxic Release Inventory
SARA – Superfunds Amendments and Reauthorization Act
SDS – Safety Data Sheet

### 16.3 Disclaimer

The information on this SDS is based on data which is considered to be accurate. Opti-Lube Inc., however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information. The conditions or methods of handling, storage, use and disposal of the products 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, use or disposal of this product. This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.