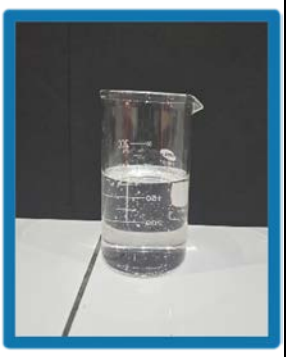
SOLVENT SYSTEMS International, Inc.
Environmental Services

Offer Sheet

Product	Silicone Oil
Quantity	1 FTL – 18 totes
Net weight	2,094 lbs./tote net weight = 37,692 lbs.
Availability	One time, virgin, surplus
Location	Tifton, GA 31794
Date	7/8/25
COA & SDS	Attached below



Commercial Uses for Silicone Oil:

Silicone oil is a highly versatile, synthetic fluid valued for its stability, lubricity, and chemical inertness. Its unique properties make it essential across a broad range of industries. Here are the primary commercial uses:

1. Industrial Lubrication and Release Agents
   - **Lubricant:** Used for machinery, conveyor belts, and moving parts, especially where high or low temperature stability is required.
   - **Mold Release Agent:** Prevents sticking in the molding of plastics, rubber, and metal parts, ensuring easy demolding and clean surfaces.
2. Electrical and Electronic Applications
   - **Dielectric Fluid:** Acts as an electrical insulator in transformers, capacitors, and high-voltage equipment.
   - **Cooling Fluid:** Used in electronic devices and laboratory equipment (such as oil baths and heat transfer systems) due to its thermal stability.
3. Automotive and Aerospace
   - **Hydraulic Fluids:** Utilized in vehicle and aircraft hydraulic systems for its non-shearing and temperature-resistant properties.
   - **Fan Clutch Assemblies:** Serves as the working fluid in automotive viscous fan couplings.
4. Medical and Pharmaceutical
   - **Ophthalmology:** Injected as a vitreous substitute during retinal detachment surgery.
   - **Medical Device Lubrication:** Ensures smooth operation of syringes and surgical instruments.
   - **Pharmaceuticals:** Used in creams, ointments, and as an excipient in medications.
5. Cosmetics and Personal Care
   - **Skin and Hair Care:** Provides a silky, non-greasy feel in lotions, creams, conditioners, and sunscreens; forms a protective, moisture-locking barrier.
   - **Makeup:** Enhances spreadability and sensory experience in various formulations.
6. Food and Beverage Processing
   - **Antifoaming Agent:** Added to prevent or control foam in food processing, fermentation, and industrial cooking oils.
7. Construction and Materials
   - **Concrete and Mortar Additive:** Improves workability and water resistance.
   - **Protective Coatings:** Used as a waterproofing and protective layer for glass, ceramics, and construction materials.
8. Textile and Paper Industry
   - **Textile Softener:** Imparts softness and flexibility to fabrics and fibers.
   - **Paper and Film Processing:** Acts as a plasticizer and release agent.
9. Other Applications
   - **Polishes and Cleaners:** Included in automotive polishes and household cleaners for shine and water repellency.
   - **Heat Transfer Medium:** Used in specialized heating and cooling systems.
   - **Dashpots and Dampers:** Provides controlled resistance in mechanical devices.

Silicone oil's combination of thermal stability, chemical inertness, lubricity, and water repellency underpins its widespread commercial adoption across these diverse sectors.

CERTIFICATE OF ANALYSIS

Product :- **PATADD 200/10,000cSt**

Lot Number :- **#2-02-2024**

Manufacturing date :- **26 Feb 2024**

Invoice Num :-

Parameters	Specification	Method	Result
Physical Appearance	Clear Liquid	PI-QCPAFP-01	Clear Liquid
Colour	100 APHA Max	PI-QCPAFP-01	3.2 APHA
Specific Gravity @ 25ºC	0.950 - 0.990	PI-QCPAFP-01	0.965
Refractive Index	1.400 - 1.405	PI-QCPAFP-01	1.403

This is a computer generated document and does not require signature

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1 Identification

· **Product identifier**

· **Trade name: PAT-ADD 200/10,000cSt**
· **CAS Number:**
63148-62-9
· **Application of the substance / the mixture** Release agent

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2 Hazard(s) identification

· **Classification of the substance or mixture**
The substance is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
63148-62-9 Polydimethylsiloxane 90-100%

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4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**
65 mg/m³

· **PAC-2:**
720 mg/m³

· **PAC-3:**
4,300 mg/m³

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** Protect from heat.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:** Not required.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	Colorless to yellow
· **Odor:**	Mild
· **Odor threshold:**	Not determined.
· **pH-value:**	Mixture is non-polar/aprotic.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>65 °C (>149 °F)
· **Flash point:**	>300 °C (>572 °F)
· **Flammability:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not determined.
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Specific Gravity**	0.900-0.950 @ 25 °C (33.6-33.7 @ 77 °F)
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 25 °C (77 °F):	10,000 cSt
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No further relvent information available
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The substance is not subject to classification.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
Substance is not listed.

· **NTP (National Toxicology Program)**
Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
Substance is not listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	Not Applicable
· **UN proper shipping name**	
· **DOT, ADR, IMDG, IATA**	Not Applicable
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Not Applicable
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Not Applicable
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Not Applicable

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**
Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**
Substance is not listed.

· **TSCA (Toxic Substances Control Act):**
ACTIVE

· **Hazardous Air Pollutants**
Substance is not listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**
Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**
Substance is not listed.

· **Chemicals known to cause developmental toxicity:**
Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
Substance is not listed.

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· **TLV (Threshold Limit Value)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Research and Development Department
· **Contact:** research@patchamltd.com
· **Date of preparation / last revision** 07/02/2025 / 1
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit