

JT'S SHOCK OIL

SAFETY DATA SHEET

Silicone Shock Oil Product Family - 350 to 1000 cSt

Covered viscosity grades: 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950 and 1000 cSt.

1. Identification

Product name	JT's Shock Oil - Silicone Shock Oil, 350-1000 cSt
Recommended use	Silicone damping fluid for radio-controlled vehicle shock absorbers and suspension tuning.
Chemical family	Polydimethylsiloxane (PDMS) silicone fluid
CAS No.	63148-62-9
Company	JT's Shock Oil
Website	jtsshockoil.com
Email	info@jtsshockoil.com
Emergency contact	For a medical emergency, contact local emergency medical services or a poison information service appropriate to your location.

2. Hazard(s) Identification

GHS classification (basis: raw-material supplier SDS, OSHA HCS): Acute aquatic toxicity - Category 2 (H401); Chronic aquatic toxicity - Category 2 (H411).

Hazard statements: H401 - Toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.

Signal word / pictogram: The source supplier SDS does not require a signal word or hazard pictogram under its stated OSHA/GHS presentation.

Precautionary emphasis: Avoid release to the environment. Collect spillage. Do not allow product to enter drains, surface water, or groundwater.

Hazards not otherwise classified: None identified in the source supplier SDS.

3. Composition / Information on Ingredients

Substance	Polydimethylsiloxane (PDMS)
Formula	$(\text{Si}(\text{CH}_3)_2\text{O})_n$
CAS No.	63148-62-9
EC No.	613-156-5 (as listed by supplier)
Composition	100% PDMS silicone-fluid chemistry. JT's intermediate viscosity grades are produced by blending PDMS base fluids of the same CAS identity.

4. First-Aid Measures

General: If symptoms occur or exposure is significant, seek medical advice and provide this SDS.

Inhalation: Move person to fresh air. If not breathing, provide artificial respiration and seek medical attention.

Skin: Wash with soap and plenty of water. Seek medical advice if irritation persists.

Eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek medical advice.

5. Fire-Fighting Measures

Suitable media: Foam, carbon dioxide (CO₂), or dry chemical powder.

Specific hazards: Combustible material. Strong heating may create hazardous vapors. Fire decomposition may produce carbon oxides and silicon oxides.

Protection: Firefighters should use appropriate protective equipment and self-contained breathing apparatus where conditions require it. Prevent contaminated fire-fighting water from entering drains or waterways.

6. Accidental Release Measures

Personal precautions: Use appropriate PPE. Avoid breathing mist or aerosol. Ensure adequate ventilation.

Environmental precautions: Prevent entry into drains, waterways, soil and groundwater.

Cleanup: Contain spill, protect drains, collect or pump off where practical, then absorb residual liquid with suitable inert absorbent. Dispose according to applicable requirements.

7. Handling and Storage

Handling: Avoid unnecessary skin/eye contact and breathing mist or aerosol. Use good industrial hygiene.

Storage: Keep container tightly closed in a dry, well-ventilated location. Protect from strong heating and incompatible materials.

Incompatibilities: Acids, bases and strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure limits: Source supplier SDS lists no components with established workplace exposure-limit values.

Engineering controls: General ventilation is normally adequate. Avoid generation of aerosol or mist.

Eyes: Safety glasses with side shields when splash exposure is possible.

Hands/skin: Nitrile rubber gloves are referenced by the supplier for contact situations. Select protection appropriate to the task.

Respiratory: Normally not required except where aerosol or mist is generated.

Hygiene: Wash hands after handling and before eating, drinking or smoking.

9. Physical and Chemical Properties

Appearance	Viscous, colorless liquid
Nominal viscosity	350-1000 cSt depending on product grade
Melting/freezing point	-55 °C (-67 °F), source supplier value
Boiling information	>140 °C (>284 °F) at 0.003 hPa, source supplier value
Flash point	101.1 °C (214.0 °F), closed cup, source supplier value
Vapor pressure	<7 hPa (<5 mmHg) at 25 °C, source supplier value
Relative density	0.97 g/mL at 25 °C, source supplier value
Water solubility	Slightly soluble, source supplier description
Auto-ignition	>400 °C (>752 °F), source supplier value
Decomposition	>200 °C (>392 °F), source supplier value

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Strong heating.

Incompatible materials: Acids, bases and strong oxidizing agents.

Hazardous decomposition: Carbon oxides and silicon oxides under fire conditions.

11. Toxicological Information

Acute toxicity: Source supplier SDS reports oral LD50 (rat) >24,000 mg/kg and dermal LD50 (rabbit) >2,000 mg/kg.

Skin irritation: Mild skin irritation reported in rabbit testing (24 h).

Eye irritation: Mild eye irritation reported in rabbit testing (24 h).

Carcinogenicity: Source supplier SDS states no component at $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen by IARC, ACGIH, NTP or OSHA.

Other endpoints: No data available in the source supplier SDS for sensitization, reproductive toxicity, STOT or aspiration hazard.

12. Ecological Information

Classification: Acute aquatic toxicity Category 2 (H401) and chronic aquatic toxicity Category 2 (H411), per source supplier SDS.

Environmental handling: Avoid release to the environment. Do not discharge to drains, soil, surface water or groundwater.

Persistence/degradability/bioaccumulation/mobility: No data available in the source supplier SDS.

13. Disposal Considerations

Dispose of product, absorbed spills and contaminated containers in accordance with applicable federal, state and local requirements. Do not dump into sewers, onto the ground or into bodies of water. Do not mix with incompatible waste streams.

14. Transport Information

DOT (US): Not dangerous goods, per source supplier SDS.

IMDG: Not dangerous goods, per source supplier SDS.

IATA: Not dangerous goods, per source supplier SDS.

15. Regulatory Information

SARA 302: Source supplier SDS states no listed components subject to reporting requirements.

SARA 313: Source supplier SDS states no components exceeding applicable de minimis reporting thresholds.

SARA 311/312: Source supplier SDS states no SARA hazards.

Massachusetts Right-to-Know: Source supplier SDS states no listed components.

Regulatory obligations may depend on quantity, workplace use, jurisdiction and how the product is marketed and distributed.

16. Other Information

Hazard statement text: H401 - Toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.

Source basis: Consolidated Chemical & Solvents, LLC, Silicone Oil 350 cSt SDS and Silicone Oil 1000 cSt SDS, revision date 05/02/2024, CAS 63148-62-9.

JT's document date: 08/19/2026

Revision: 1.0

Preparation basis: This SDS is based on safety information supplied for the PDMS raw materials used to prepare the JT's Shock Oil viscosity range. It should be reviewed and updated if the formulation, supplier, regulatory classification, or applicable legal requirements change.

PRODUCT FAMILY & SOURCE BASIS

This SDS covers JT's Shock Oil viscosity grades 350 through 1000 cSt in 50 cSt increments. The intermediate viscosity grades are produced by blending the 350 cSt and 1000 cSt PDMS base fluids. The source supplier documents for both endpoint fluids identify CAS 63148-62-9 and the same hazard classification basis. Accordingly, this document treats the listed JT's viscosity grades as one PDMS silicone-shock-oil product family.

This SDS does not cover any future formulation containing additives, dyes, fragrances, solvents, or silicone fluids with a different chemical identity or hazard classification.

Source document	Key identification
Consolidated Chemical & Solvents - Silicone Oil 350 cSt SDS, rev. 05/02/2024	PDMS; CAS 63148-62-9; H401/H411
Consolidated Chemical & Solvents - Silicone Oil 1000 cSt SDS, rev. 05/02/2024	PDMS; CAS 63148-62-9; H401/H411