SAFETY DATA SHEET

Date Prepared: April 10, 1999
Date Revised: February 13, 2024

1. Identification of the substance/mixture and of the company/undertaking

Product Name SOLVEST 240-2 GREASE

Identification of the supplier

Company Name	STT INC.
Address	Tatenodai 2-6-1, Hadano-shi, Kanagawa 257-0017 JAPAN
Charge section	Research and Development Division
Telephone	+81-463-80-2591
Facsimile	+81-463-80-2594
Emergency Contact	Hadano Plant : +81-463-80-2593
Recommended use	Lubricants

2. Hazards identification

GHS Classification

Not applicable

Label Elements

Precautionary pictograms

- None

Signal word

- None

Hazard Statement(s)

- No information

3. Composition/information on ingredients

Substance/Mixture: Mixture

Compositions (contents of the product)

Chemical name	Concentration (wt %)	CAS No.
Perfluoropolyether	65～75 %	Trade secret
Polytetrafluoroethylene	25～35 %	9002-84-0

4. First-aid measures

IF INHALED

- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Get medical advice/attention.

IF ON SKIN

- Remove/ take off contaminated clothing.
- Immediately rinse with plenty of soap and water.
- Get medical advice/attention.
- Wash contaminated clothing before reuse.

IF IN EYES

- Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get medical advice/attention.

IF SWALLOWED

- Rinse mouth well.
- Do not induce vomiting.
- Get medical advice/attention.

5. Fire-fighting measures

Suitable extinguishing media

- Small Fire: Carbon dioxide, powder extinguishing agent, alcohol resistant foam extinguishing agent
- Major Fire: Spray water, spray mist, alcohol resistant foam extinguishing agent
- Use an appropriate fire extinguishing agent according to the surrounding fire.

Unsuitable extinguishing media

- None

Specific hazards arising from the chemical;

- In case of fire, toxic and corrosive gas may be generated.

Special protective equipment and precautions for fire-fighters

- When there is danger that sprinkling water would cause fire to spread, of extinguishing agents listed above, use suitable extinguishing agent other than sprinkling water.
- Move container to a safe area if it can be done without risk.
- If immovable, sprinkle water on and around the container to cool.
- Even after extinguishing the fire, cool the container sufficiently with a large amount of water.

Protection of the person who extinguishes the fire

- In extinguishing fire, wear appropriate air respirator and chemical protection wear.
- Extinguish the fire from the windward side and avoid inhalation of vapors and smoke.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

- Do not touch or walk in the leaked material.
- Immediately isolate the appropriate distance in all directions as a leak area.
- Keep out except responsible personnel.
- Wear suitable protective equipment described in “Section 8: Exposure controls/personal protection”.
- Do not touch damaged containers or leaks without proper protective equipment.
- If a leak does not cause a fire, wear tightly sealed, impermeable protective equipment.
- Stay upwind.
- Stay away from the lowlands.
- Ventilate before entering a enclosed area.

Environmental precautions

- Take precautions so as to prevent discharge into river and impact on environment.
- Do not discharge into environment.

Methods and materials for containment and cleaning up

- Absorb with dry soil, sand or non-combustible material, or collect in an empty container that can be covered and sealed.
- In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty containers to the extent possible.

7. Handling and storage

Handling

Technical Measures

- Install appropriate equipment and wear suitable protective apparatus described in "Section 8: Exposure controls/ personal protection".
- No fire

Precautions for safe handling

- Do not handle until all safety precautions have been read and understood.
- Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging.
- Do not eat, drink or smoke when using this product.
- Use personal protective equipment and ventilation to avoid exposure.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Keep container tightly closed.
- Do not smoking in the handling area.
  Smoking of cigarettes with products may inhale decomposition gas, so it is prohibited to bring in cigarettes.

Storage

Conditions for safe storage

- Container shall be sealed airtight and shall be stored in cool and well-ventilated location.
- Keep away from direct sunlight and sources of ignition.

Packing material

- No information

---

8. Exposure controls/personal protection

Control parameters

Chemical name	ACGIH	
	TLV-TWA	TLV-STEL
Perfluoropolyether	－	－
Polytetrafluoroethylene	－	－

Appropriate engineering controls

- Establish eye washing and body washing facilities near the work areas.
- Use adequate ventilation to keep gas and vapor concentrations below occupational exposure .
- A local exhaust system should be installed in the process of heating to 260 ° C or higher.

Personal Protective Equipment

Respiratory protection

- Wear appropriate protective mask or air aspirator as required.
- If the product is heated to 260 ° C or higher and the human body is exposed to the resulting decomposition products, use a gas mask for organic acid gas (in some cases, an air line mask).

Hand protection

- Wear appropriate protective gloves.

Eye protection

- Wear appropriate eye protection.
- Safety glasses (Normal Glass Type, Normal Glasses with Side Blinders, Goggle Type).

Skin and body protection

- Wear appropriate protective clothing and protective gear for face.

Hygiene Measures

- Wash hands thoroughly after handling.

---

9. Physical and chemical properties

Physical state	Semisolid
Color	White
Odor	No information
Initial boiling point and boiling range	No information
Flammability	Not flammable
Upper/lower flammability or explosive limits	No information
Flash point	No flash point
Auto-ignition temperature	No information
Decomposition temperature	>290 deg C(Perfluoropolyether)
pH	No information
Kinematic Viscosity	No information
Vapor pressure	<0.00001hPa(Perfluoropolyether)
Relative density	1.94
Relative gas density	No information
Particle characteristics	No information

10. Stability and reactivity

Reactibity

- Not reactive under normal handling condition.
- Ignites when heated. Static electricity may be generated due to flow, mixing etc..

Chemical stability

- Stable under normal handling condition.
- When heated or burned, it decomposes and produces toxic fumes such as hydrogen fluoride.

Conditions to avoid

- Heat, flames and sparks

Incompatible materials

- Metal powders such as aluminum and magnesium, and fluorine-based oxidants such as fluorine and chlorine trifluoride. If heated in a mixed state, it may react and cause a fire or explosion.

Hazardous decomposition products

- Due to heat degradation, carbon monoxide, hydrogen fluoride, and etc will form

11. Toxicological information

Information on ingredients

Components	Acute toxicity				
	Oral	Dermal	Inhalation : gas	Inhalation : vapor	Inhalation : dust, mist
Perfluoropolyether	Not possible	Not classified	Not classified	Not possible	Not possible
Polytetrafluoroethylene	Not classified	Not possible	Not classified	Not possible	Not possible

Components	Skin corrosion /irritation	Eye damage /irritation	Respiratory sensitization	Skin sensitization	Germ Cell Mutagenicity
Perfluoropolyether	Not classified	Not classified	Not classified	Not possible	Not possible
Polytetrafluoroethylene	Not classified	Not possible	Not possible	Not possible	Not possible

Components	Carcinogenicity	Reproductive Toxicity	STOT		Aspiration hazard
			Single	Repeated	
Perfluoropolyether	Not possible	Not possible	Not possible	Not possible	Not possible
Polytetrafluoroethylene	Not possible	Not possible	Not possible	Not possible	Not possible

Information on product

- No data is available on the product itself.
- See Section【2. Hazards identification】for GHS classification.

12. Ecological information

Environmental Hazard

Components	Aquatic toxicity			Hazardous to the ozone layer
	Acute	Chronic	Biological toxicity	
Perfluoropolyether	Not possible	Not possible	No information	Not possible
Polytetrafluoroethylene	Not possible	Not possible	No information	Not possible

Persistence and Degradative

- No data is available on the product itself.

Bioaccumulation potential

- No data is available on the product itself.

Mobility in soil

- No data is available on the product itself.

Other adverse effects

- No data is available on the product itself.

13. Disposal considerations

Residue Waste

- In disposing, comply with relevant laws and standards set by the municipal government.
- When industrial waste disposal vendor licensed by prefectural governors etc. or local public body performs processing, contract with such bodies for processing.
- When contracting waste processing, contract upon providing adequate disclosure of danger and hazard to processing agent.

Contaminated Container and Packaging

- Container shall be washed and recycled or disposed appropriately complying with relevant laws and standards set by the municipal government.
- When disposing of empty container, completely remove contents.

14. Transport information

International regulation

UN number	Not applicable
Marine pollutants	Not applicable

Specific security precaution and condition of transportation

- When transporting, avoid direct sunlight and load containers in a way that prevents damage, corrosion, leakage, and collapse of cargo.
- Do not stack heavy items.

15. Regulatory information

Regulatory information with regards to this preparation in your country or region should be examined by your own responsibility.

16. Other information

References

- NITE GHS classification results.
- Petrochemical Manufacturers: Safety Data Sheet
- Ministry of Health, Labour and Welfare: https://anzeninfo.mhlw.go.jp/

［Disclaimer］

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.