



Safety Data Sheet

Issuing Date 03-Aug-2015

Revision Date 03-Aug-2015

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name LENIUM® TS

Other means of identification

Product Code LENTS

Recommended use of the chemical and restrictions on use

Recommended Use Swelling agent for silicone tubing.

Details of the supplier of the safety data sheet

Manufacturer Address Vantage Specialties, Inc.
3938 Porett Drive
Gurnee, IL 60031 USA
847-244-3410

Emergency Telephone Number

Emergency Telephone Number CHEMTREC International +1-703-527-3887
CHEMTREC USA: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard.

This is not a dangerous substance or mixture according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Label Elements

EMERGENCY OVERVIEW

Not Hazardous

Color Colorless

Physical State Liquid

Odor Ether

Hazards not otherwise classified (HNOC)

Toxic decomposition products (hydrogen fluoride and perfluoroisobutylene) may be released if product is exposed to extreme heat.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Octamethyltrisiloxane	107-51-7	30 - 60
Methyl Nonafluoroisobutyl ether	163702-08-7	10 - 50
Methyl Nonafluorobutyl ether	163702-07-6	10 - 50

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	IF ON SKIN: Rinse skin with plenty of water.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
<u>Specific hazards arising from the chemical</u>	Thermal decomposition may cause release of hazardous vapors.
Hazardous combustion products	Hydrogen fluoride. Perfluoroisobutylene. Carbon oxides. Silicon dioxide. Formaldehyde.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective equipment and precautions for firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent release to surface water.

Methods and material for containment and cleaning up

Methods for Containment Dike to collect large liquid spills.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Safety Shower
Eyewash station
Ventilation system.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.

Skin and Body Protection Protective gloves.

Respiratory Protection Not required under normal conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Clear	Odor	Ether
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		Not determined
Melting point/freezing point		Not determined
Boiling point/boiling range	65 °C / 149 °F	
Flash Point	Does not flash when tested by TAG or Pensky-Martens closed cup	
Evaporation Rate		Not determined
Flammability (solid, gas)		Not flammable
Flammability Limits in Air		Not determined
Upper flammability limits		
Lower Flammability Limit		
Vapor pressure	> 100	mm Hg
Vapor Density	> 1	(air = 1)
Specific Gravity	1.12	@ 25°C
Water Solubility	Insoluble	
Solubility in other solvents		
Partition coefficient		Not determined
Autoignition Temperature		Not determined
Decomposition temperature		Not determined
Kinematic viscosity		Not determined
Dynamic viscosity		Not determined
Explosive Properties	None	
Oxidizing Properties	None	

Other Information

10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	
Hazardous Reactions	None under normal processing.
Conditions to Avoid	Extremes of temperature and direct sunlight
Incompatible materials	None known based on information supplied.

Hazardous Decomposition Products

Thermal decomposition can lead to release of toxic vapors (see sec. 5).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	The ingredients of this product do not present an acute toxicity hazard based on published data.
Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Octamethyltrisiloxane 107-51-7	> 2,000 mg/kg (Rat)	> 2,000 mg/kg (Rat)	> 2350 ppm (Rat)
Methyl Nonafluoroisobutyl ether 163702-08-7	> 5,000 mg/kg (Rat)	-	> 1,000 mg/l (Rat)
Methyl Nonafluorobutyl ether 163702-07-6	> 5,000 mg/kg (Rat)	-	> 1,000 mg/l (Rat)

Information on toxicological effects

Symptoms	No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Sensitization	No known hazard.
Carcinogenicity	Contains no listed human carcinogens at greater than 0.1%.
Reproductive Toxicity	No known hazard.
Developmental Toxicity	No known hazard.
Chronic Toxicity	No known hazard.
Aspiration hazard	No known hazard.
Numerical measures of toxicity-Product Information	Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long lasting harmful effects to aquatic life

Persistence and degradability

No data available.

Bioaccumulation/Accumulation

No data available

Mobility

No data available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Method	Dispose of in accordance with applicable regulations.
Contaminated Packaging	Dispose of in accordance with applicable regulations.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG / IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl Nonafluoroisobutyl ether 163702-08-7			X
Methyl Nonafluorobutyl ether 163702-07-6			X

16. OTHER INFORMATION**NFPA**

Health Hazard 3

Flammability 0

Instability 0

Physical and Chemical Hazards Toxic decomposition products (hydrogen fluoride and perfluoroisobutylene) may be released if product is exposed to extreme heat.

Personal Precautions A

HMIS

Health Hazard 1

Flammability 0

Physical hazards 0

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Revision Note**Reason for Revision**

Update to supplier identity/logo Periodic review and update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS

LENIUM is a registered trademark of Vantage Specialties, Inc.