

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: QSOL™ 300 CLEANING SOLVENT

Product Code: 6660

Synonyms: Cyclic, branched, or linear, completely methoxylated siloxanes (VMS)

SDS No.: 82836

1.2. Intended Use of the Product

Cleaning and degreasing metal parts. Cleaning printing equipment. QSOL 300 Cleaning Solvent consists of cyclic completely methoxylated siloxanes that do not participate in atmospheric photochemical reactions, and are therefore exempted from the definition of a regulated VOC (Volatile Organic Compound) under federal and state regulations. The virgin solvent is qualified under U.S. Military Detail Specification MIL-PRF-32295 as a non-aqueous, low VOC, HAP-free cleaner and is included on the U.S. Military Qualified Products List (QPL). For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Safety-Kleen Systems, Inc.
42 Longwater Drive
Norwell, MA 02061-9149
U.S.A
1-800-669-5740

www.safety-kleen.com

Supplier (in Canada)

Safety-Kleen Canada, Inc.
25 Regan Road
Brampton, Ontario L7A 1B2
Canada
1-800-669-5740

www.safety-kleen.com

1.4. Emergency Telephone Number

Emergency Number : 1-800-468-1760

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Flam. Liq. 4 H227
Repr. 2 H361

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :



GHS08

Signal Word (GHS-US/CA) :

Warning

Hazard Statements (GHS-US/CA) :

H227 - Combustible liquid.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary Statements (GHS-US/CA) :

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective gloves, protective clothing, and eye protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P403 - Store in a well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

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2.3. Other Hazards

This product contains a siloxane compound which may generate formaldehyde vapors when exposed to temperatures exceeding 302°F in the presence of air. Formaldehyde is a known cancer hazard, causes irritation and sensitization to the respiratory system, causes throat irritation, and is extremely toxic. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Decamethylcyclopentasiloxane	Cyclopentasiloxane, decamethyl- / Cyclopentasiloxane, 2,2,4,4,6,6,8,8,10,10-decamethyl- / CYCLOPENTASILOXANE / Cyclopentasiloxane / 2,2,4,4,6,6,8,8,10,10-Decamethylcyclopentasiloxane / D5 /	(CAS-No.) 541-02-6	97.5 – 100	Flam. Liq. 4, H227 Aquatic Chronic 4, H413
Cyclosiloxanes, dimethyl-	Cyclopolydimethylsiloxane / Cyclosiloxanes, dimethyl / Polydimethylcyclosiloxane / Cyclic dimethyl polysiloxane / Cyclomethicone /	(CAS-No.) 69430-24-6	≤3	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Ventilate the area. Obtain medical attention.

Skin Contact: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If exposed or concerned: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Suspected of damaging fertility or the unborn child.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam, water spray, fog.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Move container from fire area if it can be done without risk. Fight fire from the maximum distance possible, or use unmanned hose holders or monitor nozzles. Cool containers by flooding them with large quantities of water until well after fire is out. Leave the area immediately if you hear a rising sound from venting safety devices or see discoloration of the tank. Keep upwind. Avoid inhalation of material or combustion by-products. In case of major fire and large quantities: Evacuate area.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Silicon oxides. Irritating or toxic vapors. Formaldehyde. Formaldehyde is a known cancer hazard, causes irritation and sensitization to the respiratory system, causes throat irritation, and is extremely toxic.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Ventilate spillage area. Do not breathe vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Use special care to avoid static electric charges. No smoking.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE) in accordance with Section 8.

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Eliminate ignition sources first, then ventilate the area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools. Do not touch or walk on the spilled product.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. A vapor suppressing foam may be used to reduce vapors. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray or vapors. Take precautionary measures against static discharge. Use only non-sparking tools. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

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Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep away from flame, sparks, excessive temperatures and open flame. Do not pressurize, cut, heat or weld containers. Store only in approved containers. Keep container closed and clearly labeled. Keep in fireproof place. Store in a well-ventilated area. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Cleaning and degreasing metal parts. Cleaning printing equipment. QSOL 300 Cleaning Solvent consists of cyclic completely methoxylated siloxanes that do not participate in atmospheric photochemical reactions, and are therefore exempted from the definition of a regulated VOC (Volatile Organic Compound) under federal and state regulations. This solvent is qualified under U.S. Military Qualified Products List (QPL). If this product is used in combination with other products, refer to the Safety Data Sheet for those products. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Decamethylcyclopentasiloxane (541-02-6)		
USA AIHA	WEEL TWA [ppm]	10 ppm

8.2. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Provide adequate general and local exhaust ventilation. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Safety glasses with side shields. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Safety glasses with side shields, or goggles, are recommended.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Consumer Exposure Controls: Wear recommended personal protective equipment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, colorless
Odor	: Slight lime odor
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: -38 °C (-36.4 °F)
Freezing Point	: -38 °C (-36.4 °F)
Boiling Point	: 210 °C (410 °F)
Flash Point	: 77 °C (170.6 °F)
Auto-ignition Temperature	: No data available

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Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: 0.95
Solubility	: Insoluble in water.
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Volatile Organic Compounds (As Regulated)	: 100 WT %; 7.9 LB/US gal; 950 g/L As per 40 CFR Part 51.100(s) Vapor Pressure @ 20°C (68°F) = 0.1 mm Hg ; Non-photochemically reactive QSOL 300™ Cleaning Solvent consists of cyclic completely methylated siloxanes that do not participate in atmospheric photochemical reactions, and are therefore exempted from the definition of a regulated VOC (Volatile Organic Compound) under Federal and state regulations. The product complies with the exempted solvent requirements of the Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 16, because the cleaning solution is composed of branched, cyclic, or linear complement methylated siloxane (VMS).

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability:

Combustible liquid. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Silicon oxides. Irritating or toxic vapors. Formaldehyde. Formaldehyde is a known cancer hazard, causes irritation and sensitization to the respiratory system, causes throat irritation, and is extremely toxic.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

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Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Decamethylcyclpentasiloxane (541-02-6)	
LD50 Oral Rat	> 24134 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	8.67 mg/l/4h
Cyclosiloxanes, dimethyl- (69430-24-6)	
LD50 Oral Rat	> 16 ml/kg
LD50 Dermal Rabbit	> 16 ml/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Decamethylcyclpentasiloxane (541-02-6)	
LC50 Fish 1	16 µg/l
NOEC Chronic Fish	15000 ng/l

12.2. Persistence and Degradability

QSOL™ 300 CLEANING SOLVENT	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

QSOL™ 300 CLEANING SOLVENT	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations. Refer to manufacturer/supplier for information on recovery/recycling

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : COMBUSTIBLE LIQUID, N.O.S.
(Decamethylcyclpentasiloxane; cyclosiloxane, dimethyl)

Identification Number : NA1993

Packing Group : III

Special Provisions: 49CFR173.150. Not regulated for transport in single packages less than 119 US Gal / 450 L (bulk package). Non-bulk packages are not regulated.

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport



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14.4. In Accordance with TDG

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

QSOL™ 300 CLEANING SOLVENT	
SARA Section 311/312 Hazard Classes	Health hazard - Reproductive toxicity Physical hazard - Flammable (gases, aerosols, liquids, or solids)
Decamethylcyclotrasiloxane (541-02-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Cyclosiloxanes, dimethyl- (69430-24-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. US State Regulations

Undecane (1120-21-4) (Recycled product only)
U.S. - New Jersey - Right to Know Hazardous Substance List

15.3. Canadian Regulations

Decamethylcyclotrasiloxane (541-02-6)
Listed on the Canadian DSL (Domestic Substances List)
Cyclosiloxanes, dimethyl- (69430-24-6)
Listed on the Canadian DSL (Domestic Substances List)

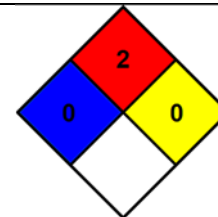
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 07/01/2022
Indication of Changes	: Review of data; Language modified.
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
H226	Flammable liquid and vapor
H227	Combustible liquid
H361	Suspected of damaging fertility or the unborn child

NFPA Health Hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA Fire Hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA Reactivity Hazard	: 0 - Material that in themselves are normally stable, even under fire conditions.



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The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.

NA GHS SDS 2015 (Can, US)