

SteriKleen™ SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: SteriKleen ST-400622

Product/Intended Use: Handpiece Cleaning Solvent used prior to SteriLube application

Manufacturer/Distributor: CPAC Equipment, Inc., 2364 Leicester Road, Leicester, NY 14481

Phone Number: 800-828-6011 **EMERGENCY PHONE NUMBER:** 800-222-1222

2. HAZARDS IDENTIFICATION

GHS Hazard Classification: Category 2B – Serious Eye Damage/Irritation

Category 3 – Specific Target Organ Toxicity, Single Exposure

GHS Label Elements: Signal Word: Warning

Pictogram:



Hazard Statements: Causes eye irritation. May cause drowsiness or dizziness.

Prevention Statements: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Use only in well-ventilated area. If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice/attention. Pressurized container – DO NOT pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container to an approved waste disposal facility.

Other Hazards: In use, may form flammable/explosive vapor-air mixture. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may lead to death without warning symptoms, due to cardiac effects. Rapid evaporation of the product may cause frostbite.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Materials</u>	<u>CAS No.</u>	<u>Approximate %</u>
1,1,1,2,2,3,4,5,5,5-Decafluoropentane	138495-42-8	30-45
Trans,1,2-Dichloroethylene	156-60-5	30-45
Cyclopentane	287-92-3	1-4
n-Pentane	109-66-0	≤1
1,1,1,2-Tetrafluoroethane	811-97-2	18-22

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Skin: Flush skin with plenty of water after contact. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Oral: If swallowed, do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed: May cause cardiac arrhythmia. Skin contact may provoke the following symptoms: Dermatitis, Discomfort, Pain, Redness, Rash, Itching, Swelling of tissue, Eye damage. Eye contact may provoke the following symptoms: Irritation, Pain, Tearing, Swelling of tissue, Redness Impairment of vision, Discomfort. Inhalation may provoke the following symptoms: Eye damage. Effects of breathing high concentrations of vapor may include: Tiredness, Drowsiness, Central nervous system effects, Convulsions. Adverse effects from repeated inhalation may include central nervous system effects. Ingestion may provoke the following symptoms: Lack of coordination, Narcosis, Eye damage. Aspiration may cause pulmonary edema and pneumonitis. Causes eye irritation. May cause drowsiness or dizziness. **Notes to Physician:** Treat symptomatically and supportively.

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5. FIREFIGHTING MEASURES

Flammability: Not flammable. **Test Methods:** Ignition distance test/Enclosed space ignition test.

Suitable Extinguishing Media: CO₂, Dry chemical, Water spray, Alcohol-resistant Foam

Unsuitable extinguishing media: None known

Specific Hazards: Vapors may form explosive mixture with air. Exposure to combustion products may be hazardous to health. Hazardous combustion products: Hydrogen fluoride, Carbonyl fluoride, Carbon oxides, Chlorine compounds.

Special Fire Fighting Instruction: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Evacuate personnel to safe areas. Cool containers with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe area. Ventilate area, especially low or enclosed places where heavy vapors might collect. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental precautions: If cans rupture, prevent material from entering sewers, waterways, or low areas. Should not be released into the environment. Do not allow contact with soil, surface or ground water.

Spill Cleanup: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

7. HANDLING AND STORAGE

Handling: Vapors are heavier than air and accumulate in low areas. Use only with adequate ventilation. Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential. Do not eat, drink, or smoke. Do not swallow. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

Storage: Store in a clean, dry, well-ventilated place. Do not store near sources of ignition, heat, in direct sunlight or where temperatures exceed 52°C (125°F). Take care to prevent spills, waste and minimize release to the environment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

1,1,1,2,2,3,4,5,5,5-Decafluoropentatne

Trans,1,2-Dichloroethylene

Cyclopentane

n-Pentane

1,1,1,2 – Tetrafluoroethane

TLV (ACGIH)

Not Established

200 ppm, TWA

600 ppm, TWA

1000 ppm, TWA

Not Established

PEL (OSHA)

Not Established

200 ppm (8 Hr. TWA)

600 ppm (8 Hr. TWA)

1000 ppm, TWA

Note Established

Respiratory Protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Eye Protection: Avoid eye contact. Use chemical goggles or safety glasses with side shields.

Skin Protection: Avoid contact with skin. Use gloves impervious to this material (e.g. Viton) when prolonged or frequently repeated contact occurs. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often.

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Hygiene Measures: Do not eat, drink or smoke when using this product. Do not breathe vapors or spray mist. Avoid contact with skin, eyes, or clothing. Wash exposed areas thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N.A., **Percent Volatile by Volume:** 100, **Density:** 1.33 g/cc @ 77°F/25°C, **Vapor Pressure:** 460 mmHg @ 77°F/25°C, **Vapor Density (Air=1):** 4.7, **Solubility in H₂O:** Slightly soluble, **pH Information:** Neutral, **Evaporation Rate (CC14=1):** N.A., **Form:** Aerosol, **Appearance:** Clear & Colorless, **Color:** Clear, **Odor:** Ether-like.

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard, **Chemical stability:** Stable under normal conditions, **Possibility of hazardous reactions:** Vapors may form explosive mixture with air. In use may form flammable/explosive vapor-air mixture, **Material and Conditions to Avoid:** None known, **Decomposition:** No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

1,1,1,2,2,3,4,5,5-Decafluoropentane:

Information on likely routes of exposure: Inhalation, Skin contact, Ingestion, Eye contact

Acute Toxicity: Not classified based on available information.

Skin Corrosion/Irritation: Not classified based on available information.

Serious Eye Irritation/ Eye Irritation: Not classified based on available information.

Skin & Respiratory Sensitization: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information

STOT-single exposure: Not classified based on available information.

STOT-repeated exposure: Not classified based on available information.

Aspiration toxicity: Not classified based on available information.

Trans-1,2-Dichloroethylene:

Acute Oral: LD50: 7902 mg/kg in rats

Acute Dermal: LD50: > 5,000 mg/kg in rabbits

Acute Inhalation: 4-hour LC50: 95.4 mg/l in rats. Test atmosphere: vapor. Method: OECD Test Guideline 403

Skin Corrosion/Irritation: Mild skin irritation in rabbits

Serious Eye Irritation/ Eye Irritation: Mild eye irritation in rabbits. Reversing within 7 days.

Skin Sensitization: No data available

Respiratory Sensitization: No data available

Germ Cell Mutagenicity: Evidence does not support classification of a germ cell mutagen.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: May cause drowsiness and dizziness.

STOT-repeated exposure: No significant health effects observed in animals at concentrations of 250 ppmV/6h/d or less.

Aspiration toxicity: Not classified based on available information.

Cyclopentane:

Acute Oral: LD50: > 5,000mg/kg, Rat

Acute Inhalation: 4-hour LC50: 25.3 mg/l, Rat. Method: OECD Test Guideline 403.

Skin Corrosion/Irritation: No skin irritation in rabbits. Repeated exposure may cause skin dryness or cracking.

Serious Eye Irritation/ Eye Irritation: No eye irritation in rabbits. Method: OECD Test Guideline 405. Based on data from similar materials.

Skin sensitization: Does not cause skin sensitization in Guinea pig

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Respiratory Sensitization: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: NOAEL: 30 mg/l, Rat, inhalation (vapor), 90 days. Method: OECD Test Guideline 413.

Aspiration toxicity: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

n-Pentane:

Acute Oral: LD50: > 2,000mg/kg, Rat. Method: OECD Test Guideline 401. The substance has no acute oral toxicity.

Acute Inhalation: 4-hour LC50: > 20 mg/l, Rat. Method: OECD Test Guideline 403. Based on data from similar materials.

Skin Corrosion/Irritation: No skin irritation in rabbits. Repeated exposure may cause skin dryness or cracking.

Serious Eye Irritation/ Eye Irritation: No eye irritation in rabbits. Method: OECD Test Guideline 405.

Skin sensitization: Does not cause skin sensitization., Guinea pig.

Respiratory Sensitization: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: NOAEL: > 6700 ppm, Rat, inhalation (gas), 13 weeks. Method: OECD Test Guideline 413.

Aspiration toxicity: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

12. ECOLOGICAL INFORMATION

1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Ecotoxicity: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects:

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Trans-1,2-Dichloroethylene:

96-hour LC50 in *Lepomis macrochirus* (Bluegill sunfish): 135 mg/l

48-hour EC50 in *Daphnia magna* (Water flea): 220 mg/l

72-hour EC50 in *Pseudokirchneriella subcapitata* (Green algae): 36.36 mg/l

Biodegradability: Not readily biodegradable. Method: OECD Test Guideline 301D

Bioaccumulative potential: Partition coefficient: n-: log Pow: 2.06

Cyclopentane:

48-hour EL50 in *Daphnia magna* (Water flea): 10.5 mg/l

96-hour LC50 in *Oncorhynchus kisutch* (coho salmon): > 100 mg/l

Biodegradability: Not readily biodegradable. 0% Biodegradation in 28 days. Method: OECD Test Guideline 301F

Bioaccumulative potential: Partition coefficient: n-: log Pow: 3

n- Pentane:

48-hour EC50 in *Daphnia magna* (Water flea): 2.7 mg/l

96-hour LC50 in *Oncorhynchus mykiss* (rainbow trout): 4.26 mg/l

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72-hour NOEC in Scenedesmus capricornutum (fresh water algae): 2.04 mg/l. Method: OECD Test Guideline 201

Biodegradability: Readily biodegradable. 87% Biodegradation in 28 days.

Bioaccumulative potential: Partition coefficient: n-: log Pow: 3.45

13. DISPOSAL CONSIDERATIONS

If recycling is not practicable, dispose of in compliance with local regulations. Remove to a permitted waste disposal facility.

14. TRANSPORT INFORMATION

U.S. DOT:

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D,

Identification No. None,

Packing Group: None

IATA:

Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2,

Identification No. UN1950,

Packing Group: None

IMDG:

Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2,

Identification No. UN1950,

Packing Group: None

15. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All ingredients are listed in TSCA inventory.

1,1,1,2,2,3,4,5,5,5-Decafluoropentane (CAS# 138495-42-8) - The United States Environmental Protection Agency has established a Significant New Use Rule (SNUR; 40 CFR 721.5645) for this product. This product contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D.

CERCLA Reportable Quantity: trans-Dichloroethylene, 156-60-5: Component RQ is 1000 lbs; Calculated product RQ is 2222 lbs.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity: This material does not contain any components with a section 302 EHS RQ.

SARA 311/312 Hazards: Serious eye damage or eye irritation. Specific target organ toxicity (single exposure).

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

State Regulations (U.S.):

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or birth defects or other reproductive defects.

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16. OTHER INFORMATION

NPCA-HMIS Ratings:

Health - 1

Flammability - 0

Reactivity - 1

Personal Protective rating to be supplied by user depending on the conditions.

FOR USE IN CLEANING ONLY DENTAL HANDPIECES

REVISION DATE: JANUARY 2020

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. Final determination of suitability of any material is the sole responsibility of the user.