

**Safety Data Sheet**  
Left Hook

**SECTION I - IDENTIFICATION**

**PRODUCT IDENTIFIER:** Left Hook  
**PRODUCT CODE:** 5250  
**RECOMMENDED USE:** Electronic Cleaner  
**RESTRICTIONS ON USE:** None known.  
**COMPANY NAME:** QuestSpecialty Corporation  
**COMPANY ADDRESS:** PO Box 624 Brenham, TX 77834  
**COMPANY PHONE:** 800-231-0454  
**EMERGENCY PHONE:** 800-255-3924

**SECTION II – HAZARDS IDENTIFICATION**

**CLASSIFICATION:** Gases Under Pressure: Liquefied Gas  
Skin Irritant: Category 2  
Eye Irritant: Category 2A  
Reproductive Toxicity: Category 2  
Specific Target Organ Toxicity (Single Exposure): Category 3  
Specific Target Organ Toxicity (Repeated Exposure): Category 2  
Aspiration Hazard: Category 1

**HAZARD STATEMENT(S): DANGER:** Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. Suspected of damaging fertility or the unborn child. May cause respiratory irritation, drowsiness or dizziness. May cause damage to the central and peripheral nervous systems, brain, lungs kidneys and reproductive system through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: N/A

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames and hot surfaces. -No smoking. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves, protective clothing and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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: Get medical advice or attention. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If swallowed: immediately call a poison center or doctor. Do NOT induce vomiting. Dispose of contents and container in accordance with local, state and federal regulations.

**SYMBOL:**



**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

**SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
1,1,1,2-Tetrafluoroethane	811-97-2	30-40%
1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethylether	406-78-0	30-40%
trans-1,2-Dichloroethylene	156-60-5	10-20%
Ethyl alcohol	64-17-5	5-10%
Hexane	110-54-3	1-5%

**Safety Data Sheet**  
**Left Hook**

**SECTION IV - FIRST AID MEASURES**

- EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.
- INGESTION:** Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Keep head below hips if vomiting occurs. Seek immediate medical attention. Aspiration hazard. Never give anything by mouth to an unconscious person.
- INHALATION:** Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.
- SKIN:** Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.
- ACUTE HEALTH HAZARDS:** Causes skin irritation including redness, burning and drying/cracking. May be harmful if absorbed through skin. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors or mists may cause irritation of respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
- CHRONIC HEALTH HAZARDS:** Skin disorders, drying and irritation of the skin. May cause damage to the following organs: kidneys, liver, respiratory, reproductive and central nervous systems. Excessive exposure may result in peripheral neuropathies due to n-hexane. Symptoms would be sensory numbness and possible motor weakness in extremities.
- NOTE TO PHYSICIAN:** Treatment of overexposure should be directed at the control of symptoms and the clinical condition. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

**SECTION V – FIRE-FIGHTING MEASURES**

- EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, and water spray or fog.
- UNSUITABLE EXTINGUISHING MEDIA:** Water jets or streams.
- SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 122 °F (50 °C) may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition.
- HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, hydrogen chloride, phosgene. Halogenated compounds.

**SECTION VI – ACCIDENTAL RELEASE MEASURES**

- PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.
- SPILL:** Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal.
- WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Wrap container and place in trash collection.
- RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

**SECTION VII – HANDLING AND STORAGE**

- HANDLING AND STORAGE:** Do not use or store near heat, open flames or other sources of ignition. Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Do not use or store with strong oxidizers. Store in a cool, dry area. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling.
- OTHER PRECAUTIONS:** Keep out of the reach of children. Aspiration hazard if swallowed. Can enter lungs and cause damage. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not taste or swallow. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.
- INCOMPATIBILITY:** Strong acids and bases, oxidizing agents.

**SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
1,1,1,2-Tetrafluoroethane	Not Established	Not Established

**Safety Data Sheet**  
**Left Hook**

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethylether	Not Established	Not Established
trans-1,2-Dichloroethylene	200 ppm	200 ppm
Ethyl alcohol	1000 ppm	1000 ppm
Hexane	500 ppm	50 ppm

**ENGINEERING CONTROLS / VENTILATION:** Use only outdoors or in a well-ventilated area.

**RESPIRATORY PROTECTION:** Not required with adequate ventilation. Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (Section VIII) are exceeded.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses/goggles and chemical resistant gloves.

**ADDITIONAL MEASURES:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective clothing to prevent repeated or prolonged contact with product. Avoid contact with skin or eyes and avoid breathing vapors. Wash hands after use. If clothing becomes contaminated, immediately remove and wash.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Clear, colorless spray.

**ODOR:** Halogenated solvent.

**ODOR THRESHOLD:** N/D

**pH:** N/A

**MELTING POINT/FREEZING POINT:** N/D

**INITIAL BOILING POINT AND BOILING RANGE:** N/D

**FLASH POINT:** N/D

**EVAPORATION RATE:** > 3 Fast

**FLAMMABILITY (solid/gas):** Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200).

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:**

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**EXPLOSIVE LIMIT LOWER (%):** N/D

**EXPLOSIVE LIMIT UPPER (%):** N/D

**VAPOR PRESSURE (mm Hg):** N/D

**VAPOR DENSITY (AIR=1):** N/D

**RELATIVE DENSITY (H<sub>2</sub>O=1):** 1.275 - 1.30 @ 77 °F (25 °C).

**SOLUBILITY(IES):** Non-soluble in water.

**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**DECOMPOSITION TEMPERATURE:** N/D

**VISCOSITY:** N/D

**SECTION X – STABILITY AND REACTIVITY**

**REACTIVITY:** None known.

**CHEMICAL STABILITY:** Stable.

**POSSIBLE HAZARDOUS REACTIONS:** None known.

**CONDITIONS TO AVOID:** Temperatures greater than 122 °F (50 °C) and sources of ignition. Avoid incompatible materials.

**INCOMPATIBLE MATERIALS:** Strong acids and bases, oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, hydrogen chloride gas and phosgene gas.

**SECTION XI – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** **1,1,1,2-Tetrafluoroethane** (811-97-2) LC<sub>50</sub> (Inhalation, Rat, 4h) > 2000 mg/L; LC<sub>50</sub> (Inhalation, Rat, 4h) > 359300 ppm. **trans-1,2-Dichloroethylene** (156-60-5): LD<sub>50</sub> (Oral, Rat) 1235 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) >5000 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4h) 24100 ppm. **Ethyl alcohol** (64-17-5): LC<sub>50</sub> (Inhalation, Rat, 4h) 133.6 mg/L; LD<sub>50</sub> (Oral, Rat) > 8311 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) 16972.5 mg/kg. **n-Hexane** (110-54-3): LD<sub>50</sub> (Oral, Rat) > 5000 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) > 2000 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4h) > 20 mg/L.

**ROUTES OF ENTRY:** Eyes, Inhalation, Skin

**EYES:** Causes irritation, redness, tearing.

# Safety Data Sheet

## Left Hook

**INGESTION:** Not a likely route of exposure under normal product handling conditions. Causes gastrointestinal irritation, nausea, diarrhea. Absorption through gastrointestinal tract may produce symptoms of central nervous system depression ranging from light headedness to unconsciousness. Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia or edema.

**INHALATION:** Causes dizziness, headaches, nausea, central nervous system (CNS) depression. Excessive or prolonged exposure may cause unconsciousness.

**SKIN:** Causes irritation, redness, burning. Prolonged contact may cause defatting of the skin and dermatitis. May be harmful if absorbed through the skin.

**MEDICAL CONDITION AGGRAVATED:** Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

**ACUTE HEALTH HAZARDS:** Causes skin irritation including redness, burning and drying/cracking. May be harmful if absorbed through skin. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors or mists may cause irritation of respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**CHRONIC HEALTH HAZARDS:** Skin disorders, drying and irritation of the skin. May cause damage to the following organs: kidneys, liver, respiratory, reproductive and central nervous systems. Excessive exposure may result in peripheral neuropathies due to n-hexane. Symptoms would be sensory numbness and possible motor weakness in extremities.

**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: Ethyl alcohol possesses properties that indicate a carcinogenicity hazard for human health, but these are manifest only at doses associated with consumption of alcoholic beverages.

### SECTION XII – ECOLOGICAL INFORMATION

**ECOTOXICITY:** Avoid release to the environment. **1,1,1,2-Tetrafluoroethane** (811-97-2): LC<sub>50</sub> (Fish, 96h) 450 mg/L; EC<sub>50</sub> (Daphnia, 48h) 980 mg/L. **trans-1,2-Dichloroethylene** (156-60-5): EC<sub>50</sub> (*Daphnia magna*, 48h) 220 - 290 mg/L; NOEC (*Daphnia magna*, 48h) < 100 mg/L. **Ethyl alcohol** (64-17-5): LC<sub>50</sub> (Fish, 96h) 12,900 - 15,300 mg/L; LC<sub>50</sub> (Bacteria, 24h) 11,200 mg/L; EC<sub>50</sub> (Bacteria, 5 - 30m) 34,900 mg/L.

**PERSISTENCE AND DEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATIVE POTENTIAL:** Components in this mixture can bioaccumulate in aquatic organisms.

**MOBILITY IN SOIL:** N/D

**OTHER ADVERSE EFFECTS:** None known.

### SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Wrap container and place in trash collection.

**RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

### SECTION XIV - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

#### AIR SHIPMENT

**PROPER SHIPPING NAME:** Aerosols, non-flammable.

**HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

#### SHIPPING BY WATER:

##### VESSEL (IMO/IMDG)

**PROPER SHIPPING NAME:** Aerosols.

**HAZARD CLASS/DIVISION:** 2.2

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

**ENVIRONMENTAL HAZARDS WATER:** N/A

Safety Data Sheet  
Left Hook

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:** All chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): 1,2-Dichloroethylene (156-60-5)**  
Reportable Quantity = 1000 pounds. **n-Hexane (110-54-3)** Reportable Quantity = 5,000 pounds.

**SARA 311/312 HAZARD CATEGORIES:** Gas under pressure. Skin corrosion or irritation. Serious eye damage or eye irritation. Reproductive toxicity. Specific target organ toxicity (single or repeated exposure). Aspiration hazard.

**SARA 313 REPORTABLE INGREDIENTS:** **n-Hexane (110-54-3).**

**CLEAN WATER ACT: trans-1,2-Dichloroethylene (156-60-5)** is a priority pollutant and a toxic pollutant. **Hexane (110-54-3)** is a hazardous substance.

**STATE REGULATIONS: California Proposition 65: WARNING:** This product can expose you to chemicals including n-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). **trans-1,2-Dichloroethylene (156-60-5):** Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, PA. **Ethyl alcohol (64-17-5):** Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, ID, MA, MN, NJ, PA, RI, WA. **Hexane (110-54-3):** Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, MA, NJ, NY, NC, PA, RI, WI.

**INTERNATIONAL REGULATIONS:** No information available.

**VOLATILE ORGANIC COMPOUNDS (VOC):** 20.2%

**NFPA HEALTH:** 2

**HMIS HEALTH:** 2

**NFPA FLAMMABILITY:** 1

**HMIS FLAMMABILITY:** 1

**NFPA REACTIVITY:** 0

**HMIS REACTIVITY:** 0

**NFPA OTHER:** None

**HMIS PROTECTION:** B

**SECTION XVI - OTHER INFORMATION**

**PREPARATION BY:** Roberto Cerón

**DATE PREPARED:** 05/26/2015

**REVISION DATE:** 10/14/2022

N/A = Not Applicable; N/D = Not Determined

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.