

**Safety Data Sheet**  
**Ruthless**

**SECTION I - IDENTIFICATION**

**PRODUCT NAME:** Ruthless  
**PRODUCT CODE:** 5580/5590  
**PRODUCT USE:** Paint and Varnish Remover  
**COMPANY NAME:** QuestVapco Corporation  
**COMPANY ADDRESS:** PO Box 624 Brenham, TX 77834  
**COMPANY PHONE:** 1-800-231-0454  
**EMERGENCY PHONE:** 800-255-3924

**SECTION II – HAZARDS IDENTIFICATION**

**CLASSIFICATION:** Flammable Aerosol: Category 2  
Liquefied Gas  
Acute Toxicity Oral: Category 4  
Skin Irritant: Category 2  
Eye Irritant: Category 2b  
Carcinogenicity: Category 2  
Specific Target Organ Toxicity (Repeated Exposure): Category 1

**HAZARD STATEMENT(S): DANGER:** Flammable Aerosol Contains gas under pressure; May explode if heated. Harmful if swallowed. Causes skin and eye irritation. Suspected of causing cancer. Causes damage to eyes and Central nervous system with prolonged or repeated exposure.

This product contains the following percentage of chemicals of unknown toxicity: 1%

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash 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 attention. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. If exposed or concerned: Get medical advice or attention. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Do not breathe fumes, mist, vapors, or spray.



**SYMBOL:**

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

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

<b>HAZARDOUS INGREDIENT</b>	<b>CAS NUMBER</b>	<b>PERCENT</b>
Methylene Chloride	75-09-2	40-70%
Propane/n-Butane	68476-86-8	10-30%
Methyl Alcohol	67-56-1	7-13%

**SECTION IV - FIRST AID MEASURES**

**EYES:** Immediately flush with water for 15 minutes while holding eyelids open. Seek immediate medical attention.

**INGESTION:** If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

**INHALATION:** Move to fresh air. If not breathing administer artificial respiration. 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 develops.

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

Skin: defatting and dermatitis

Inhalation: Irritation

Oral: abdominal irritation, nausea, vomiting, and diarrhea

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**CHRONIC HEALTH HAZARDS:** Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

**NOTE TO PHYSICIAN:** Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

### SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, foam, or Carbon Dioxide (CO<sub>2</sub>).

**UNSUITABLE EXTINGUISHING MEDIA:** Water spray/stream.

**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:** Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, chlorine, hydrogen chloride and phosgene.

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Remove sources of ignition such as pilot lights. Material is heavier than air and can settle in low lying areas in flammable concentrations, ventilate area. Product will undergo rapid evaporation. Use absorbent on spill sweep to clean. Small releases may be wiped up with wiping material. Dispose of residue in accordance with federal, state and local guidelines. Offer drums for recycling. Do not reuse empty container. Smaller containers should be rinsed and placed in trash collection.

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling.

**RCRA STATUS:** Waste solvent likely considered U080 (Methylene Chloride), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

### SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up.

**OTHER PRECAUTIONS:** Use gloves, lab coat or apron, splash goggles, and use a vapor respirator approved/certified respirator or equivalent when ventilation is not adequate.

**INCOMPATIBILITY:** Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attack some forms of plastics, rubber, and coatings.

### SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Methylene Chloride	25 ppm	50 ppm
Propane/n-Butane	1000 ppm	1000 ppm
Methyl Alcohol	200 ppm	200 ppm

**ENGINEERING CONTROLS / VENTILATION:** Material is heavier than air. Material may concentrate in low lying areas. Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses and chemical resistant gloves

**ADDITIONAL MEASURES:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Viscous, Hazy Spray

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**ODOR:** Chlorinated solvent odor  
**ODOR THRESHOLD:** 21mg/m<sup>3</sup> (Methylene Chloride)  
**BOILING POINT:** >104  
**FREEZING POINT:** N/D  
**FLAMMABILITY:** Flammable Aerosol  
**FLASH POINT:** N/D  
**AUTOIGNITION TEMPERATURE:** N/D  
**LOWER FLAMMABILITY LIMIT:** N/D  
**UPPER FLAMMABILITY LIMIT:** N/D  
**VAPOR PRESSURE (mm Hg):** >100  
**VAPOR DENSITY (AIR=1):** > 2  
**EVAPORATION RATE:** >2  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.185  
**pH:** N/A  
**SOLIDS (%):** 2%  
**SOLUBILITY IN WATER:** 14%  
**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D  
**VOLATILITY INCLUDING WATER (%):** 98%  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 33%  
**DIELECTRIC STRENGTH (Volts):** N/D  
**DECOMPOSITION TEMPERATURE:** N/D  
**VISCOSITY:** N/D

**SECTION X – STABILITY AND REACTIVITY DATA**

**REACTIVITY:** Chemically active metals and acids  
**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Temperatures greater than 122°F and sources of ignition.

**INCOMPATIBILITY:** Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attack some forms of plastics, rubber, and coatings.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon, chlorine, hydrogen chloride and phosgene.

**POSSIBLE HAZARDOUS REACTIONS:** None Known

**SECTION XI – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** **Methylene Chloride** (75-09-2) LD<sub>50</sub> (Oral, Rat) 1600 mg/kg; LC<sub>50</sub> (Inhalation, Rat) 52 gm/m<sup>3</sup>  
**Methyl Alcohol** (67-56-1) LD<sub>50</sub> (Oral, Man) 5628 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) 20,000 mg/kg

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

**EYES:** Causes severe irritation, redness, tearing, pain, may cause eye damage.

**INGESTION:** Nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edemas, absorption through the gastrointestinal tract may produce symptoms of CNS depression ranging from unconsciousness to death.

**INHALATION:** Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.

**SKIN:** Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

**MEDICAL CONDITION AGGRAVATED:** Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system.

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

Skin: defatting and dermatitis

Inhalation: Irritation

Oral: abdominal irritation, nausea, vomiting, and diarrhea

**CHRONIC HEALTH HAZARDS:** Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

**CARCINOGENICITY:** OSHA: Yes ACGIH: A3 - Animal Carcinogen NTP: 2 - Anticipated

IARC: 2B - Possible OTHER: CA Prop 65

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**SECTION XII – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** **Methylene Chloride** (75-09-2) Fish: Bluegill/Sunfish: 230mg/L; 24H; StaticFish: Fathead Minnow: 196mg/L; 96H **Methyl Alcohol** (67-56-1) LC<sub>50</sub> (Fathead Minnow, 96hrs) 29400 mg/L The half-life of methanol in surface water ranges from 24 - 168 hrs.

**BIODEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATION:** This product is not expected to bioaccumulate.

**SOIL MOBILITY:** This product is mobile in soil.

**OTHER ECOLOGICAL HAZARDS:** This material is toxic to aquatic life.

**SECTION XIII – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling.

**RCRA STATUS:** Waste solvent likely considered U080 (Methylene Chloride), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

**SECTION XIV - TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1 (6.1)  
**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A

**AIR SHIPMENT**

**PROPER SHIPPING NAME:** Forbidden by USDOT Regulations  
**HAZARD CLASS/DIVISION:** N/A  
**UN/NA NUMBER:** UN 1950

**SHIPPING BY WATER:**

**VESSEL (IMO/IMDG)**  
**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1 (6.1)  
**UN/NA NUMBER:** UN 1950  
**ENVIRONMENTAL HAZARDS WATER:** Marine Pollutant

**SECTION XV - REGULATORY INFORMATION**

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

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** **Methanol** (67-56-1) Reportable Quantity = 5,000 lbs **Methylene Chloride** (75-09-2) Reportable Quantity = 1,000 lbs

**SARA 311/312 HAZARD CATEGORIES:** Methylene Chloride - 75-09-2; hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200), Methanol - 67-56-1

**SARA 313 REPORTABLE INGREDIENTS:** Methylene Chloride - 75-09-2

**STATE REGULATIONS:** California Prop 65: This product contains the following ingredients for which the state of California has found to cause cancer, birth defects or other reproductive harm.: METHYLENE CHLORIDE - 75-09-2 Pennsylvania Right to Know: METHYLENE CHLORIDE - 75-09-2; METHANOL – 67-56-1  
Massachusetts Right to Know: METHYLENE CHLORIDE - 75-09-2 New Jersey Right to Know: METHANOL – 67-56-1

**INTERNATIONAL REGULATIONS:** WHMIS (Canada): Class D-1B material causing immediate and serious toxic effects(toxic). Class D-2A: Material causing other toxic effects (very toxic). DSCL (EEC): R22 – Harmful if swallowed. R38-irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer.

<b>NFPA HEALTH:</b>	3	<b>HMIS HEALTH:</b>	3
<b>NFPA FLAMMABILITY:</b>	2	<b>HMIS FLAMMABILITY:</b>	2
<b>NFPA REACTIVITY:</b>	0	<b>HMIS REACTIVITY:</b>	0
<b>NFPA OTHER:</b>	None	<b>HMIS PROTECTION:</b>	B

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**SECTION XVI - ADDITIONAL INFORMATION**

**PREPARATION BY:** Jonathon Jarvis

**DATE PREPARED:** 04/18/2013

**REVISION DATE:** 12/05/2014

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.