

**Safety Data Sheet**  
Tough Guy

**SECTION I - IDENTIFICATION**

**PRODUCT NAME:** Tough Guy  
**PRODUCT CODE:** 5230  
**PRODUCT USE:** Heavy Duty Industrial Degreaser  
**COMPANY NAME:** QuestSpecialty Corporation  
**COMPANY ADDRESS:** P.O. Box 624 Brenham, TX 77834  
**COMPANY PHONE:** 800-231-0454  
**EMERGENCY PHONE:** 800-255-3924

**SECTION II – HAZARDS IDENTIFICATION**

**CLASSIFICATION:** Flammable Aerosol: Category 1

Liquefied Gas

Skin Irritant: Category 2

Eye Irritant: Category 2A

Aspiration Hazard: Category 1

**HAZARD STATEMENT(S): DANGER:** Extremely Flammable Aerosol Contains gas under pressure: May explode if heated. Causes skin and serious eye irritation. May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: 5%

**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. Wear protective gloves and eye protection. 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: Immediately call a poison center or doctor. Do NOT induce vomiting. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations.

**SYMBOL:**



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

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

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
1, 8-p-Menthadiene	5989-27-5	7-13%
Diethylene Glycol n-Butyl Ether	112-34-5	7-13%
Petroleum distillates, hydrotreated light	64742-47-8	30-60%
1,1-Difluoroethane	75-37-6	7-13%

**SECTION IV - FIRST AID MEASURES**

**EYES:** 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.

**INGESTION:** If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

**INHALATION:** Move to fresh air.

**SKIN:** If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.

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

Skin: defatting and dermatitis

**CHRONIC HEALTH HAZARDS:** May be toxic to kidneys and liver.

**NOTE TO PHYSICIAN:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

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**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 full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

**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

**SECTION VI – ACCIDENTAL RELEASE MEASURES**

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

**SPILL:** Absorb spill with non-combustible material such as vermiculite, sand or earth.

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not puncture 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:** 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:** Vapors may collect in low lying areas. Keep out of the reach of children. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**INCOMPATIBILITY:** Strong oxidizing agents, strong reducing agents, acids.

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

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
1, 8-p-Menthadiene	Not Established	Not Established
Diethylene Glycol n-Butyl Ether	Not Established	25 ppm
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
1,1-Difluoroethane	1000 ppm	1000 ppm

**ENGINEERING CONTROLS / VENTILATION:** Use only in well ventilated areas. Local ventilation/exhaust preferred.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (section VIII) are exceeded.

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

**ADDITIONAL MEASURES:** Wash hands thoroughly after handling.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Opaque tan spray

**ODOR:** Citrus scent

**ODOR THRESHOLD:** 1ppm

**BOILING POINT:** > 212°F (100°C)

**FREEZING POINT:** N/D

**FLAMMABILITY:** Extremely Flammable Aerosol

**FLASH POINT:** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

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

**VAPOR DENSITY (AIR=1):** > 1 @ 77°F (25°C)

**EVAPORATION RATE:** Slow

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**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 0.875  
**pH:** N/A  
**SOLUBILITY IN WATER:** Non-soluble  
**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 9.5%  
**DECOMPOSITION TEMPERATURE:** N/D  
**VISCOSITY:** N/D

**SECTION X – STABILITY AND REACTIVITY DATA**

**REACTIVITY:** If exposed to strong oxidizers, presents explosion hazard.  
**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Excessive heat.  
**INCOMPATIBILITY:** Strong oxidizing agents, strong reducing agents, acids.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon  
**POSSIBLE HAZARDOUS REACTIONS:** None Known

**SECTION XI – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** **Diethylene Glycol n-Butyl Ether** (112-34-5) LD<sub>50</sub> (Oral, Rat): 3950 - 9740 mg/kg, (Mouse) 12,400 mg/kg, (Guinea Pig) 3000 - 4970 mg/kg, (Rabbit) 4450 mg/kg; LD<sub>50</sub> (Skin, Rabbit): 10,300 mg/kg, (Guinea Pig) 31,700 mg/kg, (Mouse & Rat) 5940 mg/kg; LC<sub>50</sub> (Inhalation, Rat): 960 ppm **1,8-p-Menthadiene** (5989-27-5) Oxidized species of 1,8-p-Menthadiene have been shown to cause skin sensitization in humans. **Petroleum distillates, hydrotreated light** (64742-47-8) Eye Damage/Irritation: 2B; Aspiration Hazard: Category 1 **Alcohol Ethoxylate (C<sub>9</sub>-C<sub>11</sub>)** (68439-46-3) LD<sub>50</sub> (Dermal, Rabbit) >5 g/kg; LD<sub>50</sub> (Oral, Rat) 1.4 g/kg  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin  
**EYES:** May cause irritation, redness.  
**INGESTION:** May cause gastrointestinal irritation, nausea, diarrhea, vomiting.  
**INHALATION:** Causes mild irritation to the respiratory tract.  
**SKIN:** May cause irritation, localized defatting.  
**MEDICAL CONDITION AGGRAVATED:** None known  
**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision  
Skin: defatting and dermatitis  
**CHRONIC HEALTH HAZARDS:** May be toxic to kidneys and liver.  
**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

**SECTION XII – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** **Diethylene Glycol n-Butyl Ether** (112-34-5) LC<sub>50</sub> (Lepomis macrochirus, 96hr) 1,300 mg/L; LC<sub>50</sub> (Leuciscus idus, 48hr) > 1,000 mg/L; EC<sub>50</sub> (Daphnia magna, 48hr) > 100 mg/L; IC<sub>50</sub> (Green Algae, 24hr) 100 mg/L; LC<sub>50</sub> (Pseudomonas Putida, 16hr) 1,170 mg/L **Petroleum distillates, hydrotreated light** (64742-47-8) Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility. May adsorb to sediments and possibly cause toxic effects to organisms.  
**BIODEGRADABILITY:** This product is biodegradable.  
**BIOACCUMULATION:** This product is not expected to bioaccumulate.  
**SOIL MOBILITY:** This product is mobile in soil.  
**OTHER ECOLOGICAL HAZARDS:** None Known

**SECTION XIII – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not puncture 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 - TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1

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**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A

**AIR SHIPMENT**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1  
**UN/NA NUMBER:** UN 1950

**SHIPPING BY WATER:**

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

**SECTION XV - REGULATORY INFORMATION**

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

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA 311/312 HAZARD CATEGORIES:** None

**SARA 313 REPORTABLE INGREDIENTS:** Diethylene Glycol n-Butyl Ether (DB) (112-34-5)

**CLEAN WATER ACT:** None

**STATE REGULATIONS:** California Proposition 65: None **Petroleum distillates, hydrotreated light** (64742-47-8) RTK - PA, NJ, RI **Diethylene Glycol n-Butyl Ether (DB)** (112-34-5) RTK - PA, NJ

**INTERNATIONAL REGULATIONS:** Glycol Ether DB - 112-34-5: European Union - EINECS, Australia - AICS, Japan - ENCS, Korean - ECL, (WHMIS) Canada

**NFPA HEALTH:** 2

**HMIS HEALTH:** 2

**NFPA FLAMMABILITY:** 2

**HMIS FLAMMABILITY:** 2

**NFPA REACTIVITY:** 0

**HMIS REACTIVITY:** 0

**NFPA OTHER:** None

**HMIS PROTECTION:** B

**SECTION XVI - ADDITIONAL INFORMATION**

**PREPARATION BY:** Chioma Agbai

**DATE PREPARED:** 12/30/2013

**REVISION DATE:** 10/21/2016

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

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