

1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
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 www.gcelectronics.com

MSDS Number: 101  
 Revision Date: 5/10/12  
 Supersedes Date: 5/04/09

### MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: Q DOPE**

#### SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

Product Type: Coatings  
 Product Name: **Q Dope**  
 Part Number(s): **10-3702**  
**10-3704**  
**10-3709**

**Emergency Contact: Chemtrec**  
**Phone: (800) 424-9300**

HMIS RATINGS		NFPA CLASSIFICATION			
Health	2	Health	2	Minimal	0
Flammability	3	Flammability	3	Slight	1
Reactivity	0	Reactivity	0	Moderate	2
				Serious	3
				Severe	4

#### SECTION 2- HAZARDS IDENTIFICATION

##### GHS CLASSIFICATION:

Health		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid:	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2B				

**GHS LABEL:**   **OR**   **Signal Word: Danger** **WHMIS CLASSIFICATION:** CLASS B, DIVISION 2

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces- No smoking
H319: Causes serious eye irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H332: Harmful if inhaled	P280: Wear protective gloves/protective eye clothing/eye protection/ face protection
H335: May cause respiratory irritation	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H336: May cause drowsiness or dizziness	P403 + P233: Store in a well ventilated place. Keep container tightly closed
EUH019: May form explosive peroxides	P501: Dispose of contents/container in accordance with local regulation



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**SECTION 3 - COMPOSITION / INFORMATIN OF INGREDIENTS**

	CAS#	EINECS#	REACH Pre-Registration Number	CONCENTRATION % by Weight
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	62 - 72

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

\*Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know-Act of 1986 (40CFR372).

**SECTION 4 - FIRST AID MEASURES**

**Contact with eyes:** Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.  
**Skin Contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.  
**Inhalation:** Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.  
**Ingestion:** Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

**SECTION 5 - FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide gas, foam, Halon, water fog  
**Unsuitable Extinguishing Media:** Water spray or stream  
**Exposure Hazards:** Inhalation and dermal contact  
**Combustion Products:** Oxides of carbon, hydrogen chloride and smoke  
**Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Keep away from heat, sparks or open flame.  
 Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.  
 Prevent contact with skin or eyes (see section 8)  
**Environmental Precautions:** Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.  
**Methods for Cleaning up:** Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.  
**Materials not to be used for clean up:** Aluminum or plastic containers



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**SECTION 7- HANDLING AND STORAGE**

**Handling:** Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.  
 Do not eat, drink or smoke while handling.

**Storage:** Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature.

**SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	300 ppm

**Emergency Controls:** Use local exhaust as needed.

**Monitoring:** Maintain breathing zone airborne concentrations below exposure limits.

**Personal Protective Equipment (PPE)**

**Eye Protection:** Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

**Skin Protection:** Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.

**Respiratory Protection:** Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits are approached, use respiratory protection equipment.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Milky, opaque, medium syrupy liquid

**Odor:** Ketone

**pH:** Not Applicable

**Melting/Freezing Point:** -86°C (-123°F) Based on first melting component: MEK

**Boiling Point:** -80°C (126°F) Based on first boiling component: MEK

**Flash Point:** -9°C (16°F) TCC based on MEK

**Specific Gravity:** 0.878 @ 23°C (73.4°F)

**Solubility:** Solvent portion soluble in water. Resin portion separates out.

**Partition Coefficient n-octanol/water:** Not Available

**Auto-ignition Temperature:** 515C (959°F) based on MEK

**Decomposition Temperature:** Not Available

**VOC Content:** NWhen applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC Content is ≤ 490 g/l.



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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)**

**Odor Threshold:** 5.4 ppm (MEK)  
**Evaporation Rate:** ≥1.0 (BUAC = 1)  
**Flammability:** Category 2  
**Flammability Limits:** **LEL:** 1.4% based on MEK  
**UEL:** 11.4% based on MEK  
**Vapor Pressure:** 78 mm Hg @ 20°C (68°F) MEK  
**Vaport Density:** ≥2 (Air = 1)  
**Other Data: Viscosity:** Medium bodied

**SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable  
**Hazardous Decomposition Products:** None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.  
**Conditions to Avoid:** Keep away from heat, sparks, open flame and other ignition sources.  
**Incompatible Materials:** Oxidizers, strong acids and bases, amines, ammonia.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Likely Routes of Expoure:** Inhalation, Eye and Skin Contact  
**Acute Symptoms and Effects:**  
**Inhalation:** Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.  
**Eye Contact:** Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.  
**Skin Contact:** Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.  
**Ingestion:** May cause nausea, vomiting, diarrhea and mental sluggishness.  
**Chronic (long-term) effects:** None known to humans

**Toxicity:** LD50 LC50  
 Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation: 8 hrs. 23,500 mg/m<sup>3</sup> (rat)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** None known  
**Mobility:** In normal use, emission of volatile compounds (VOC's) to the air take place, typically at a rate of ≤490 g/l.  
**Degradability:** Biodegradable  
**Bioaccumulation:** Minimal to none.



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### SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

### SECTION 14 - TRANSPORT INFORMATION

#### Shipping information for gallon containers or above:

Proper Shipping Name: Adhesives  
Hazard Class: 3  
Secondary Risk: None  
Identification Number: UN1133  
Packing Group: PG II  
Label Required: Class 3 Flammable Liquid  
Marine Pollutant: NO

#### EXCEPTION FOR GROUND SHIPPING

**DOT Limited Quantity:** Up to 5L per inner packaging, 30 kg gross weight per package.  
**Consumer Commodity:** Depending on packaging, these quantities may qualify under DOT as "ORM-D".

#### TDG INFORMATION:

#### Shipping information for containers less than one gallon:

DOT Shipping Name: Consumer Commodity  
DOT Hazard Class: ORM-D

**TDG Class:** FLAMMABLE LIQUID 3  
**Shipping Name:** ADHESIVES  
**UN Number/Packing Group:** UN 1133, PG II

### SECTION 15 - REGULATORY INFORMATION

**Precautionary Label Information:** Highly Flammable, Irritant  
**Symbols:** F, Xi

**Ingredient Listings:** USA, TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)

**Risk Phrases:**  
R11: Highly Flammable  
R20: Harmful by inhalation  
R36/37: Irritating to eyes and respiratory system  
R66: Repeated exposure may cause skin dryness or cracking  
R67: Vapors may cause drowsiness and dizziness

**Safety Phrases:**  
S9: Keep container in a well-ventilated place  
S16: Keep away from sources of ignition- No smoking  
S25: Avoid contact with eyes  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S33: Take precautionary measures against static discharges  
S46: If swallowed, seek medical advice immediately and show this container or label

### SECTION 16 - OTHER INFORMATION

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. **NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.**