


**IQ PRODUCTS  
COMPANY**
**MATERIAL SAFETY  
DATA SHEET**

 MSDS NUMBER ) 249-A-017  
 EPA REG. NO. ) NA

 ORIGINAL ISSUE DATE 11-15-93 REVISED 3-2-94  
**CleanSafe® Brake Parts Cleaner**

<b>MANUFACTURER:</b> IQ Products Company 16212 State Highway 249 Houston, Texas 77086	<b>24 HOUR EMERGENCY</b> CHEMTREC: 800-424-9300	<b>NFPA HAZARD CLASSIFICATIONS</b>  <table border="1"> <tr> <td>2</td> <td>= Health</td> </tr> <tr> <td>1</td> <td>= Flammability</td> </tr> <tr> <td>1</td> <td>= Reactivity</td> </tr> </table>	2	= Health	1	= Flammability	1	= Reactivity	<b>NFPA DESIGNATION 704 DEGREE OF HAZARD</b>  4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
	2		= Health						
1	= Flammability								
1	= Reactivity								
<b>GENERAL MSDS ASSISTANCE</b> IQ Tel: (713) 444-6454 IQ Fax: (713) 444-0185									
<b>Prepared by:</b> Dr. I-Hsiung Wang and Marty A. York									

**Section 1 Product Identification**

<b>COMMON NAME ON LABEL</b> CleanSafe® Brake Parts Cleaner	<b>CHEMICAL FAMILY</b> Not Applicable (Mixture)
<b>TRADE NAME &amp; SYNONYMS</b> Not Applicable (Mixture)	<b>CHEMICAL FORMULA</b> Not Applicable (Mixture)

**Section 2 Hazardous Ingredients**

HAZARDOUS COMPONENT	CAS NO.	% (WT)	EXPOSURE LIMITS			CARCINOGEN
			OSHA PEL TWA (mg/m <sup>3</sup> )	ACGIH TLV TWA (mg/m <sup>3</sup> )	ACGIH STEL TWA (mg/m <sup>3</sup> )	
Ethylene, tetrachloro	127-18-4	34 - 44	170	339	1357	Yes
Toluene, o-chloro	95-49-8	22 - 64	259	259	NA	No
Toluene, p-chloro	106-43-4	0.5 - 34	NA	NA	NA	No
Toluene	108-88-3	< 1	375	188	564	No
Ethane, 1,1,1,2-tetrachloro	630-20-6	< 1	NA	NA	NA	No
Ethylene, trichloro	79-01-6	< 1	269	269	1070	No

**Section 3 Physical Data**

<b>BOILING POINT (°F)</b>	264 - 316 °F	<b>SPECIFIC GRAVITY</b> (H <sub>2</sub> O = 1)	1.2 - 1.3
<b>VAPOR PRESSURE</b> (mmHg @68°F)	Not Established	<b>PERCENT VOLATILE BY WEIGHT</b>	97.9
<b>VAPOR DENSITY (Air = 1)</b>	5 (Estimate)	pH	NA
<b>SOLUBILITY IN WATER</b>	Less than 0.015%	<b>EVAPORATION RATE</b> (BUTYL ACETATE = 1)	0.7 - 1.6
<b>APPEARANCE AND ODOR</b>	Clear, colorless liquid with chloroaromatic odor		

**Section 4 Fire & Explosion Hazard Data**

<b>FLASH POINT (test method)</b>	None	<b>AUTOIGNITION TEMPERATURE</b>	> 932 °F
<b>FLAMMABLE LIMITS IN AIR, % BY VOL.</b>	Not Established	<b>LOWER</b>	Not Established
<b>EXTINGUISHING MEDIA</b>	Water spray, foam, Carbon dioxide, dry chemical		
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in buildings or confined areas where this product is stored.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARD</b>	At high temperatures, product decomposes to give off Hydrogen chloride gas and small quantities of other toxic and irritating vapor such as Phosgene.		

## Section 5 Health Hazard Data

EFFECTS OF OVEREXPOSURE		EMERGENCY AND FIRST AID PROCEDURES	
EYES	Exposure may cause irritation to eyes.	EYES	Flush eyes with large amounts of water for at least 15 minutes. Seek medical aid.
SKIN	Mildly irritating to skin.	SKIN	Remove contaminated clothing. Wash with soap and water. If irritation persists, seek medical attention.
INHALATION	Exposure may cause irritation of upper respiratory tract.	INHALATION	Remove affected person to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Oxygen should only be administered by trained personnel.
INGESTION	May cause irritation of the gastrointestinal tract with vomiting.	INGESTION	If swallowed, call a physician immediately. <u>ONLY</u> induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

## Section 6 Reactivity Data

STABILITY	<input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID: Open flames, welding arcs, or other high temperature sources.
INCOMPATIBILITY (MATERIAL TO AVOID): Strong alkalis, alkali metals, pure Oxygen, open flames, and welding arcs.		
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID: None Known
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and very small amounts of Phosgene and Chloride.		

## Section 7 Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Leaks should be stopped. Spills should be contained and cleaned up immediately. Recovery and reuse of spilled product, rather than disposal, should be the ultimate goal of a clean up.

WASTE DISPOSAL METHOD: Always package, store, transport, and dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

## Section 8 Special Protection Information

EYE PROTECTION: Safety glasses with side shields

SKIN PROTECTION: Long sleeves and chemical resistant gloves

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION RECOMMENDED	LOCAL EXHAUST: Local exhaust ventilation when necessary
	MECHANICAL (GENERAL): Acceptable

OTHER PROTECTIVE EQUIPMENT: Emergency shower and eyewash facility

## Section 9 Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, dry, and well ventilated area. Do not breath vapor. Use with adequate ventilation to maintain exposure level below exposure limits perchloroethylene and orthochlorotoluene. Do not store at temperatures above 130 °F.

OTHER PRECAUTIONS: Read and observe all precautions and instructions on the product label.