

Health	1
Flammability	0
Reactivity	0

**MATERIAL SAFETY DATA SHEET**  
 (Complies with OSHA Communication Standard 29 CFR 1910.1200 Dept. of Labor)  
 Form approved OMB No. 1218-0072  
 OSHA 174 - Sept 1985

Health	3
Flammability	1
Reactivity	1

IDENTITY:

**ELECTRIC CONTACT CLEANER**  
 TM 1960

HIGH TECH ELECTRONIC CLEANER

CODE 76230

Marketer's Name Must Appear Below		DOT Shipping - Consumer Commodity ORM-D	
Manufacturer's Name	Osborn Manufacturing Co.	Emergency Telephone Number	(216) 487-4195
Address	5401 Hamilton Avenue	Telephone Number for Information	(216) 361-1900
	Cleveland, Ohio 44114	Date Prepared	4/28/92
		Checked	<input checked="" type="checkbox"/>

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Names(a))	OSHA PEL	ACGIH TLV	STEL	%(optional)
*1,1,1 Trichloroethane (71-55-6)	350	350	450	>96
Carbon Dioxide (124-38-9)	10000	5000	30000	3
Silicone (63148-62-9)	-	-	-	<1

1,1,1 Trichloroethane contains an inhibitor package which includes 1.5% Tert-butyl Alcohol (75-65-0), 0.5% 1,2-Butylene Oxide (106-88-7), and 1.9% Dimethoxymethane (109-87-5). Tert-butyl Alcohol and 1,2-Butylene Oxide are subject to the reporting requirements of Section 313 of SARA Title III.

\*All chemical compounds marked with an Asterisk (\*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet.

**Section III - Physical/Chemical Characteristics**

Boiling Point	Range	162°F to 191°F	Specific Gravity (H <sub>2</sub> O = 1)	1.3
Vapor Pressure PSIG @ 70°F		95	Melting Point	PH Liquid NA
Vapor Density (AIR = 1)	Heavier than Air	4.0	Evaporation Rate	(Butyl Acetate = 1) >1
Solubility in Water	Nil		Appearance and Odor	Clear/Ethereal

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used)	None	Flammable Limits	NA	LEL	UEL
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Extinguishing Media Use water fog, dry chemical or carbon dioxide

Special Fire Fighting Procedures Aerosol cans may rupture when heated

Usual Fire and Explosion Hazards Heated cans may burst

63

Stability	Stable	X	High Temperatures
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**Incompatibility (Materials to Avoid)**

incompatible with strong oxidizers and active metals.

**Hazardous Decomposition or Byproducts**

In fire, will decompose to carbon dioxide, water, halogen acids, phosgene, and SiO<sub>2</sub>.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	None

**Section VI - Health Hazard Data**

Route(s) of Entry: Inhalation?  Yes  No Skin?  Yes  No Ingestion?  Yes  No

**Health Hazards (Acute and Chronic)**

May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Effects are reversible.

Long term exposure (years) to high concentrations of vapor may cause lung, liver or kidney damage. The solvents

listed have been reported to affect the central nervous system.

Aspiration hazard if swallowed.

Eye and skin irritant.

May irritate respiratory tract.

Carcinogenicity: Presently not on any list NTP? IARC Monographs? OSHA Regulated?

**Signs and Symptoms of Exposure**

Inhalation - Difficulty in breathing. Skin-redness. Ingestion-vomiting.

**Medical Conditions**

Generally Aggravated by Exposure: Heart Disease; Respiratory Disorders.

**Emergency and First Aid Procedures**

Give oxygen - Do not induce vomiting - Gastric lavage - Wash eyes and skin with water.

Never administer adrenalin following overexposure.

**Section VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled:**

- Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

**Waste Disposal Method**

Dispose as hazardous waste in accordance with EPA RCRA.

**Precautions to be Taken in Handling and Storing**

Keep away from heat, sparks, or open flame. Store at temperatures below 120°f.

Other Precautions When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

**Section VIII - Control Measures**

**Respiratory Protection (Specify Type)**

Self contained breathing apparatus if above TLV limit exceeding.

Ventilation	Local Exhaust	Yes	Special	None
	Mechanical (General)	None	Other	None

Protective Gloves: None required if spraying Eye Protection: Wear eye protection

Other Protective Clothing or Equipment: Long sleeve and long pants

Work/Hygienic Practices: Do not smoke while using. Wash hands after use.