

HMIS RATING	
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	✓

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Names(s))	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

Bolling Point	Range	162°F to 191°F	Specific Gravity (H ₂ O = 1)	1.3
Vapor Pressure PSIG @ 70°F		95	Melting Point	NA
Vapor Density (AIR = 1)	Heavier than Air	4.0	Evaporation Rate	(Butyl Acetate = 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
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

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Stability

Stable

X

High Temperatures

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 SiO₂.

Hazardous Polymerization

May Occur

Conditions to Avoid

Will not Occur

X

None

Section VI - Health Hazard Data

Route(s) of Entry:

Inhalation?

Yes

Skin?

Yes

Ingestion?

Yes

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:

NTP?

Presently not on any list

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.

REV. 4/89

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