

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

M7-20

1400 W. INDEPENDENCE BLVD. • CHARLOTTE, N.C. 28208 • 704-377-6556

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration.
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

SECTION I GENERAL INFORMATION

PRODUCT NAME Brake Cleaner (aerosol)
PARTS NUMBER M7-20

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT. %	C.A.S. NO.	TLV (ACGIH)	OSHA (XXX)
Perchloroethylene*	90-100	127-18-4		100ppm
Methyl Chloroform	1-5	71-55-6		350ppm
Carbon Dioxide (propellant)	1-3	124-38-9		5000ppm(air)

*Carcinogen by International Agency for Research on Cancer (IARC).
Warning: "This product contains a chemical known to the State of California to cause cancer." This chemical is subject to reporting requirements of Section 313, SARA Title III.

Comments:

Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H ₂ O = 1) <u>1.61</u>	pH <u>Not applicable</u>
Solubility in Water <u>Insoluble</u>	Solubility in Solvent <u>hydrocarbons</u>
Flash Point (Method) - F ₀ <u>None</u>	% Volatiles By Wt. <u>100</u>
Melting Point - F ₀ <u>Not applicable</u>	Boiling Point - F ₀ <u>248</u>
Vapor Pressure (mmHg) <u>14.2 @ 20° C.</u>	Vapor Density (Air = 1) <u>5.7</u>
Evaporation Rate (Butyl Acetate = 1) <u>1.66 (rapid)</u>	
Appearance and Odor <u>Colorless volatile liquid with ether-like odor</u>	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Ingredients non-flammable. However, if involved in fire, use methods below.
Water Fog xxx Foam CO₂ xxx Dry Chemical xxx

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Cool containers by water spray. Shield personnel to protect from venting, rupturing, and bursting cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS Contents under PRESSURE! May explode when heated! Vapors of this product may present a fume health hazard in poorly ventilated areas. May liberate corrosive hydrochloric acid or toxic phosgene fumes.

SECTION V REACTIVITY DATA

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Stable <u>XXX</u> Unstable _____ Corrosive <u>NO</u> Hazardous Polymerization? Yes _____ No <u>XXX</u>
Avoid prolonged storage in or contact with aluminum or its alloys.
Incompatibilities: Water, alkalis, powdered metals (esp zinc), aluminum, and amines. Sparks, flames, electric arcs, and/or hot metal surfaces.
Hazardous Decomposition or Byproducts: In the presence of water: Hydrochloric acid. Ignition sources and hot metal surfaces: Phosgene and Chlorine. Flames, welding, and high temps induce decomposition.

SECTION VI HEALTH HAZARD INFORMATION

Recommended TLV of Product 100 ppm	
EYE CONTACT May cause pain and temporary eye irritation	SKIN CONTACT Defatting, dermatitis on prolonged exposure.
INHALATION Dizziness, headache, narcosis	INGESTION Harmful or fatal if swallowed in large amounts.
OTHER Excessive ingestion may cause stomach irritation, nausea, vomiting, can cause liver damage, and affect the kidneys adversely.	

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	Flush eyes with water for 15 minutes. Consult physician immediately if irritation persists.
SKIN CONTACT	Wash with mild soap and water. Remove any contaminated clothing and allow to dry in well ventilated area or out-of-doors.
INHALATION	Remove to fresh air.
INGESTION	DO NOT INDUCE VOMITING! Consult physician immediately. Never give adrenalin or other sympathomimetic drugs to persons overexposed to perchloroethylene!

SECTION VIII SPECIAL PROTECTION INFORMATION

CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION N/A	If TLV is exceeded, wear NIOSH approved respirator
VENTILATION Use with a high degree of ventilation	General and/or local high volume ventilation
EYE PROTECTION N/A	Fully protective goggles or face shield
PROTECTIVE CLOTHING N/A	Butyl rubber gloves and apron.

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Ventilate area, confine spill, wipe up with rags, and transfer to waste area.
WASTE DISPOSAL METHOD	Dispose of in accordance with all applicable government laws and regulations.
STORAGE AND HANDLING PRECAUTIONS	Store in cool, dry area away from incompatibilities above.
OTHER PRECAUTIONS	Do not wear contact lenses while using. Keep away from children. Do Not puncture nor incinerate containers.

HAZARD INFORMATION LABEL DATA	
HAZARD CODE	FLAMMABILITY
4=Extreme	0
3=High	2
2=Moderate	2
1=Slight	0
0=Negligible	0
HEALTH	
DANGER SPECIAL	
*No pressure	

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