

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

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POISON INFORMATION & EMERGENCY: 303-623-5716

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.

US 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
PART NUMBER AM7 -20 (AEROSOL)

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---X---OSHA--X---)
Perchloroethylene*	90-100	127-18-4	25 ppm TWA 25 ppm PEL 100 ppm STEC
Carbon Dioxide (Propellant)	1-3	124-38-9	5000 ppm(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: N.F.P.A. LEVEL 1 AEROSOL

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

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1) 1.619	pH Not applicable
Solubility in Water Insoluble	Solubility in Solvent Hydrocarbons
Flash Point (Method) - F⁰ None	% Volatiles By Wt. 100
Melting Point - F⁰ Not Applicable	Boiling Point - F⁰ 250
Vapor Pressure (mm Hg) 13 mm Hg @ 20 ⁰ C	Vapor Density (Air=1) 5.7
Evaporation Rate (Butyl Acetate=1) 1.66 (rapid)	
Appearance and Odor Colorless volatile liquid with ether-like odor.	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Ingredients non-flammable. However, if involved in fire, use methods prescribed.

Water Fog X **Foam** **CO₂** X **Dry Chemical** X

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 future health hazard in poorly ventilated areas. May liberate corrosive hydrochloric acid or toxic phosgene fumes.

Stable	X	Unstable		Corrosive		NO	Hazardous Polymerization?	Yes	No	X
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 temperatures induce decomposition.									

SECTION VI HEALTH HAZARD INFORMATION

Recommended TLV of Product	25 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 while lifting eyelids. Consult a physician immediately.									
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. If not breathing give artificial respiration. If breathing is difficult, call a physician or transport to a medical facility.									
INGESTION	DO NOT INDUCE VOMITING! Consult a physician immediately. NEVER GIVE ADRENALINE OR OTHER SYMPATHOMIMETIC DRUGS TO PERSONS OVEREXPOSED TO PERCHLORETHYLENE!									

SECTION VIII SPECIAL PROTECTION INFORMATION

CONSUMER		BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	Not applicable	If TLV is exceeded, wear NIOSH approved respirator
VENTILATION	Use with a high degree ventilation.	General and/or local high volume
EYE PROTECTION	Not applicable	Fully protective goggles or face shield
PROTECTIVE CLOTHING	Not applicable	Butyl rubber gloves and apron.

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Observing health hazards described above, ventilate area, wear protective equipment including positive pressure breathing apparatus. Confine spill, wipe up rags or dry absorbent, transfer to waste drum.
WASTE DISPOSAL METHOD	Dispose of in accordance with all applicable government laws and regulations.
STORAGE AND HANDLING PRECAUTIONS	Store in a cool, dry area away from incompatibilities above.
OTHER PRECAUTIONS	Do not wear contact lenses while using. KEEP AWAY FROM CHILDREN AND ANIMALS. Do not puncture or incinerate containers.

HAZARD INFORMATION LABEL DATA

HAZARD CODE FLAMMABILITY REACTIVITY

4- Extreme
3- High
2- Moderate
1- Slight
0- Negligible

HEALTH

2 0

*pr

SPECIAL

*pr=pressure

Supersedes AUGUST 1996

OSHA Revised MARCH 1999

Title R. GEER - CHEMIST

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.