

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 (H ₂ O=1)	1.619	pH	Not applicable
Solubility in Water	Insoluble	Solubility in Solvent	Hydrocarbons
Flash Point (Method) - F°	None	% Volatiles By Wt.	100
Melting Point - F°	Not Applicable	Boiling Point - F°	250
Vapor Pressure (mm Hg)	13 mm Hg @ 20° 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		CO ₂	X	Dry Chemical	X
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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	0	REACTIVITY
4- Extreme			
3- High			
2- Moderate			
1- Slight			
0- Negligible			
*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.