

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 Liquid Wrench® nonflammable SUPER LUBRICANT With TEFLON®
PART NUMBER L3 -12, -04

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--XX--OSHA-----)
Perchloroethylene*	65-80	127-18-4	50 ppm
Naphthenic petroleum oil mixture	20-30	64742-53-6/ 64742-52-5	5 mg/M ³ (Mist)
Carbon Dioxide	1-3	124-38-9	5000 ppm (air)

*Indicates toxic chemical subject to the reporting requirements of section 313 of Title III and 40CFR 372.
Warning: This product contains a chemical known to the State of California to cause cancer.

*Carcinogen by International Agency for Research on Cancer (IARC).

N. F. P. A. LEVEL 1 AEROSOL

Comments:

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

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1)	1.34	pH	does not apply
Solubility in Water	insoluble	Solubility in Solvent	hydrocarbons
Flash Point (Method) - F⁰	does not flash (COC)	% Volatiles By Wt.	Approx 60%
Melting Point - F⁰	does not apply	Boiling Point - F⁰	248 ⁰
Vapor Pressure (mmHg)	not available	Vapor Density (Air=1)	5.83
Evaporation Rate (Butyl Acetate=1)	.95		
Appearance and Odor	Opaque dense yellow suspension with sweet odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: non flammable
Water Fog Foam CO₂ Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. see Hazardous Decomposition Products below

UNUSUAL FIRE AND EXPLOSION HAZARDS Fire may cause aerosol cans to burst, even violently. Cool containers by water spray.

"Teflon" is a registered trademark of E. I. duPont.

SECTION V REACTIVITY DATA

Stable	XX	Unstable	Corrosive	NO	Hazardous Polymerization?	Yes	No	XX
Incompatibilities		None						
Hazardous Decomposition or Byproducts		Hydrogen Chloride and possible traces of phosgene						

SECTION VI HEALTH HAZARD INFORMATION

Recommended TLV of Product		5 mg/m ³ (Mist)	
EYE CONTACT		SKIN CONTACT	
Mildly irritating		Prolonged contact may cause irritation, dermatitis.	
INHALATION		INGESTION	
Moderately toxic, nausea, dizziness, headache, CNS damage		Slightly toxic, irritation of mouth and GI tract	
OTHER Prolonged exposure to high levels may bring on or aggravate existing Liver, Kidney damage/diseases. Minimize human exposure.			

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	Flush eyes with water for 15 minutes while lifting eyelids, immediately consult a physician.
SKIN CONTACT	Wash with soap and water. Remove contaminated clothing/shoes. Clean contaminated items before reuse or discard.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
INGESTION	NEVER ADMINISTER ADRENALINE FOLLOWING PERCHLOROETHYLENE OVEREXPOSURE!!! If conscious drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician.


SECTION VIII SPECIAL PROTECTION INFORMATION

	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	NONE	If TLV is exceeded wear NIOSH approved respirator
VENTILATION	Use with adequate ventilation	General
EYE PROTECTION	NONE	Fully protective goggles or face shield
PROTECTIVE CLOTHING	NONE	Butyl rubber gloves and apron

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Ventilate area, recover with adsorbent and transfer to a waste drum. Dispose of through a permitted hazardous waste management facility.
WASTE DISPOSAL METHOD	<i>Dispose of in accordance with all applicable government laws and regulations.</i>
STORAGE AND HANDLING PRECAUTIONS	Store in a cool, dry place away from heat sources
OTHER PRECAUTIONS	Wearing contact lens during use is inadvisable. KEEP AWAY FROM CHILDREN AND ANIMALS! DO NOT PUNCTURE OR INCINERATE CANS.

HAZARD INFORMATION LABEL DATA	
HAZARD CODE	FLAMMABILITY REACTIVITY
4- Extreme	
3- High	
2- Moderate	
1- Slight	
0- Negligible	
*pr=pressure	



Supersedes AUG 1996

OSHA Revised DECEMBER 1998

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.