



MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

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SUBJECT TO CHANGE
WITHOUT NOTICE
CALL 1-704-377-6555
FOR LATEST FORMULA

SECTION I GENERAL INFORMATION

PRODUCT NAME	LIQUID WRENCH No. 1 PENETRANT (NON-AEROSOL)
PART NUMBERS	11, -04, 04V, -08, -16, -32, -34, -40, -49
CHEMICAL DESCRIPTION	Petroleum Solvents, Surfactants

SECTION II HAZARDOUS COMPONENTS

CAS NUMBER	COMPONENT	%	TLV
8002-05-9	Aliphatic Petroleum Distillate	> 90	300 ppm

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

SECTION III PHYSICAL DATA

BOILING POINT	> 300 °F	SPECIFIC GRAVITY (H ₂ O=1)	NA	pH	neutral
FLASH POINT	> 100 °F	VOLATILE BY WT.	> 75 %	EVAPORATION RATE	NA
SOLUBILITY IN WATER	Insoluble	SOLUBILITY IN SOLVENTS	Petroleum solvents		
APPEARANCE AND ODOR	Dark liquid with kerosene odor.				

SECTION IV FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA	Water Fog ____ Foam <u>X</u> CO ₂ <u>X</u> Dry Chemical <u>X</u> Other ____
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained, positive pressure breathing apparatus and protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS	May liberate a small amount of sulfur trioxide.

SECTION V REACTIVITY INFORMATION (Based on data for individual components)

STABLE <u>X</u> UNSTABLE ____	HAZARDOUS POLYMERIZATION? YES ____ NO <u>X</u>	CORROSIVE? ____ NO
MATERIALS TO AVOID Strong oxidizing agents.		
CONDITIONS TO AVOID High temperatures.		
HAZARDOUS DECOMPOSITION PRODUCTS Fire: Normal products of combustion; carbon dioxide, carbon monoxide, smoke, AND SULFUR TRIOXIDE		

EMERGENCY TELEPHONE NUMBER
704-377-6555

SECTION VI HEALTH HAZARD INFORMATION (Based on data for individual components)

RECOMMENDED TLV OF PRODUCT	300 ppm
EYE	Irritant.
SKIN	Excessive contact can cause skin dryness or dermatitis.
INHALATION	Excessive inhalation can cause respiratory irritation, headache, nausea, dizziness, and lung irritation.
INGESTION	Can cause gastric disturbances, nausea, and lead to lung irritation.
OTHER	NA

SECTION VII EMERGENCY AND FIRST AID PROCEDURES (Based on data for individual components)

EYE CONTACT	Flush eye with water for 15 minutes. If adverse symptoms persist, consult physician immediately.
SKIN CONTACT	Wash with soap and water. Remove contaminated clothing and wash before re-use.
INHALATION	Move to fresh air. If adverse symptoms persist, consult physician immediately.
INGESTION	DO NOT INDUCE VOMITING. Consult physician immediately.

SECTION VIII SPECIAL PROTECTION INFORMATION (Based on data for individual components)

	CONSUMER USE	BULK HANDLING (PROLONGED EXPOSURE)
RESPIRATORY PROTECTION	NA	If TLV is exceeded, wear NIOSH approved respirator.
VENTILATION	Use with adequate ventilation.	General Ventilation.
EYE PROTECTION	NA	Wear fully protective goggles or face shield.
PROTECTIVE CLOTHING	NA	Wear rubber gloves and apron.

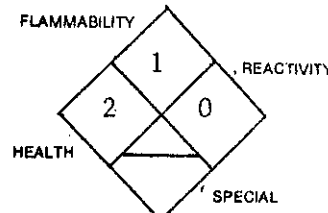
SECTION IX SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES	Wipe up with rags.	Observing health hazards described above, remove from ignition sources. Ventilate area. Confine spill and transfer to waste container.
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WASTE DISPOSAL METHODS *Dispose of in accordance with all applicable government laws and regulations.*

SECTION X SPECIAL PRECAUTIONS WEARING CONTACT LENSES IS INADVISABLE

STORAGE AND HANDLING PRECAUTIONS Store away from ignition sources.	HAZARD INFORMATION LABEL DATA HAZARD CODE 4=Extreme 3=High 2=Moderate 1=Slight 0=Negligible
OTHER PRECAUTIONS KEEP AWAY FROM CHILDREN.	



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