



MATERIAL SAFETY DATA SHEET

WYNN'S HEAVY DUTY RADIATOR FLUSH

WYNN'S
A division of Illinois Tool Works Inc.
1151 West Fifth Street
Azusa, California 91702

EMERGENCY TELEPHONE NUMBER:
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INFORMATION TELEPHONE NUMBER:
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PRODUCT IDENTIFICATION

PRODUCT NAME	EFFECTIVE DATE	PRODUCT CODE
Wynn's Heavy Duty Radiator Flush	12-30-05	60120
CHEMICAL NAME	CAS NUMBER	
N/A	N/A	

HAZARDOUS INGREDIENTS

COMMON NAME	CHEMICAL NAME	CAS NO.	%	OSHA PEL	ACGIH TLV-TWA
Hexylene Glycol	2-Methyl-2, 4-pentanediol	107-41-5	1-5	None established	25 ppm ceiling
Caustic Soda	Sodium Hydroxide	1310-73-2	1-5	2 mg/m ³	2 mg/m ³

Contains no other ingredients now known to be hazardous as defined by OSHA 29CFR 1910.1000(z) and 29CFR 1910.1200.

PHYSICAL DATA

These data are approximate or typical values and should not be used as precise specifications. Unless otherwise noted values are at 20°C(68°F) and 760 mmHg (1 atm).

Boiling Point/Range	212°F(100°C)	Freeze Point	32°F(0°C)
Specific Gravity (H₂O=1) @ 15.6°C	1.13	Vapor Pressure (mm Hg)	N/A
Vapor Density (Air =1)	N/A	Solubility in Water (%)	100
% Volatiles by Volume	70%	Evaporation Rate (Butyl Acetate = 1)	N/A
pH (as is)	4.7	pH (dilute) @ 3%	5.4
Appearance	Clear green liquid	Odor	Odorless

N/D - Not Determined

N/A - Not Applicable

< = Less Than

> = Greater Than

FIRE AND EXPLOSION HAZARD DATA

Flash Point	No flash °F(°C)	Method	N/A
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Flammable or Explosive Limits (Approximate percent by volume in air)

Lower (LEL) N/A

Upper (UEL) N/A

Hazard Class Identification

	Flammability		Hazard Code
	0		0 - Least (insignificant)
Health		Reactivity	1 - Slight
1		0	2 - Moderate
	Other		3 - High
	---		4 - Extreme

Extinguishing Media

Water, water spray, foam, dry chemicals.

Special Fire Fighting Procedures

Use water to cool containers exposed to fire. Fire fighters should always use protective clothing and self contained breathing apparatus if organic material is involved in fire.

Unusual Fire and Explosion Hazards

None indicated.

REACTIVITY DATA

Stability

Stable.

Conditions to Avoid

See storage section.

Materials to Avoid

Strong acids, oxidizing materials, nitrites.

Hazardous Decomposition or Combustion Products

Thermal decomposition may produce oxides of carbon, phosphorus, nitrogen, sodium.

Hazardous Polymerization (conditions)

WILL NOT OCCUR.

HEALTH HAZARDS/ROUTES OF ENTRY

Signs, Symptoms and Effects of Overexposure

Ingestion (swallowing)	DO NOT SWALLOW. Swallowing may cause irritation to mouth, throat and stomach. Signs and symptoms include discomfort, nausea, vomiting, diarrhea, dizziness, weakness.
Skin Contact	May cause mild local irritation depending on the duration of contact. May cause redness, dryness, defatting of skin.
Eye Contact	Direct contact causes stinging with moderate irritation. Signs and symptoms can include redness, blurred vision and watery eyes.
Inhalation (breathing)	Vapors may be irritating and can cause discomfort in the nose and throat. Prolonged exposure may cause slight irritation of the respiratory tract.

Other Effects of Prolonged/Repeated Overexposure

This material has not been identified as a carcinogen by NTP, IARC or OSHA. Prolonged exposure to vapors can cause respiratory discomfort, irritation, nausea. Pre-existing skin and respiratory disorders may be aggravated by repeated exposure.

EMERGENCY AND FIRST AID PROCEDURES

Ingestion (swallowing)	Give 2-3 cups of water to conscious person. Call for medical help.
Skin Contact	Wash skin with soap and water. Remove wet clothing. Wash before reuse.
Eye Contact	Immediately flush eyes with water for 15 minutes. Call for medical help.
Inhalation (breathing)	Remove to fresh air to avoid further inhalation.
Comments	NOTE TO PHYSICIANS: Treatment should be controlled by symptoms and clinical condition by the attending physician.

SPILL OR RELEASE CONTROL PROCEDURES

Steps to be taken in case material is released or spilled

Contain liquid with absorbent material. Shovel into containers.

Waste Disposal Method

Dispose of in accordance to Federal, State and Local regulations.

EPA Reportable Quantity (RQ), 40CFR302 (CERCLA104)

Sodium Hydroxide (1000 lbs)

EPA Toxic Chemical Release Reporting, 40CFR372(SARA313)

Chemical

CAS NO.

% in Product

N/A

N/A

N/A

HANDLING AND STORAGE

Handling and Storage Precautions

Avoid contact with skin and eyes. Store in cool dry place. Keep containers closed. DO NOT freeze product. Wash thoroughly after handling. AVOID contact with nitrites. Tertiary amines may react with nitrites to form nitrosamines which are known carcinogens.

Other Precautions

Keep out of reach of children.

PERSONAL PROTECTION - EXPOSURE CONTROL

Ventilation

General room ventilation is satisfactory for operations at normal temperatures. Local ventilation is needed at elevated temperatures.

Respiratory Protection

None required in normal use.

Eye Protection

Standard safety glasses with side shield.

Protective Gloves

Rubber, plastic gloves.

Other Protective Clothing or Equipment

Eye wash station, safety shower.

Work/Hygienic Practices

Personal cleanliness is always appropriate. Frequent washing minimizes chances of inadvertent exposure.

TRANSPORTATION INFORMATION

Department of Transportation (DOT) Classification

	Flammable Liquid	XXX	Corrosive
	Flammable Solid		Non-Flammable Gas
	Flammable Gas		Not Hazardous by DOT
	Combustible Liquid		Other:

DOT Proper Shipping Name

Corrosive Liquid, N.O.S. (Contains Sodium Hydroxide)

DOT ID Number

UN1760

DOT Packing Group

II

Note: (Consumer Commodity, ORM-D may be used for ground transportation within the USA).

DOCUMENTATION

Product Code No.: 60120
Previous Code No.: 60120

Issue Date: 12-30-05
Prior Date: 02-05-01

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