

MSDS - Material Safety Data Sheet**Product Name: LEAD SUBSTITUTE (UPC: 078698135014)****MSDS No.: M5012****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LEAD SUBSTITUTE (UPC: 078698135014)**MSDS No.:** M5012**Issue Date:** 08/26/2011**Supersedes Date:** 02/11/2009**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful or fatal if swallowed. Eye and skin irritant. Combustible.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects**Route(s) of Entry:**

Absorption, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See Signs and Symptoms below

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis..

Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause burns to mouth, throat & stomach.

Medical Conditions Generally Aggravated by Exposure:

Not Known

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Petroleum naphtha	64742-94-5	0.1 - 1.0	
Kerosene, hydrodesulfurized	64742-81-0	5.0 - 10.0	
Naphthalene	91-20-3	0.1 - 1.0	
Petroleum distillate, Aliphatic	68476-34-6	80-90	
Potassium carboxylate	Proprietary	1.0 - 5.0	
Xylene (mixed isomers)	1330-20-7	0.1 - 1.0	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

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Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Note to Physicians:

N/E

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Normal products of combustion: carbon monoxide, carbon dioxide, and oxides of sulfur and nitrogen.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

VI. Accidental Release Measures:

Personal Precautions:

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

All equipment used with handling the concentrate must be grounded. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Handling: Use with adequate ventilation and proper protective equipment. Do not use or store near fire, sparks, or flame. Wash hands after use.

Storage Precautions:

Keep container closed tightly when not in use. CAUTION: Combustible. Store in a cool place below 120 F away from acids, ignition sources and oxidizing agents.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Petroleum distillate, Aliphatic	N/E	100 ppm	N/E
Kerosene, hydrodesulfurized	N/E	N/E	Not Available
Potassium carboxylate	N/E	N/E	Not Available
Naphthalene	10 ppm	10 ppm	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Petroleum naphtha	N/E	N/E	100 ppm

Engineering Controls:

See above Section for applicable exposure limits. Maintain adequate ventilation.

Avoid breathing vapors. In restricted areas, use approved chemical filters designed to remove vapor. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above TLV limit

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:**Boiling Point:** 300F**Boiling Range:** N/D**Solubility In Water:** Insoluble**Flash Point:** 140° F**Odor Threshold:** N/D**Vapor Density (AIR = 1):** N/D**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N/E**Specific Gravity (H2O = 1):** 0.86**Other Information:** N/D**Melting Point:** N/A**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** N/D**Flash Point Method:** TCC**Appearance and Odor:** Dark amber liquid with petroleum odor.**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** N/D**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/E**X. Stability and Reactivity:****Stability:**

Stable

Conditions to Avoid:

Avoid incompatible materials

Incompatible Materials:

Oxidizing agents. Open flame, or spark, and acids

Hazardous Decomposition Products:

Fire: Normal products of combustion: carbon monoxide, carbon dioxide, and oxides of sulfur and nitrogen.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

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XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling centers when empty. Before offering for recycling, empty the can or bottle by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations

XIV. Transport Information:**Shipping Name:** Not Available**DOT Hazard Class:** Not Available**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

DOT Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping purposes.

ICAO/IATA (US)

Shipping Name: Petroleum Products, n.o.s. (Petroleum Distillate, Aliphatic)

Class: 3

Packaging Group: III

UN number: 1268

International:**ICAO/IATA**

UN Number: UN1268

Shipping Name: Petroleum products, n.o.s. (petroleum distillate, Aliphatic)

Class: 3

Packaging Group: III

IMDG

UN Number: UN1268

Shipping Name: Petroleum products, N.O.S. (Petroleum Distillate, Aliphatic)

Class: 3

Packaging Group: III

EMS: F-E, S-E

XV. Regulatory Information:

SARA 313 Reportable Chemicals.

Xylene - 1330-20-7

Naphthalene -91-20-3

Petroleum Naphtha - 64742-94-5

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

State RTK Chemicals:

Xylene - 1330-20-7

Naphthalene -91-20-3

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XVI. Other Information:

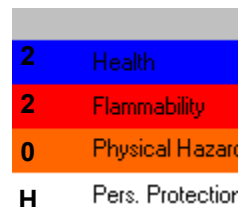
Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture
Hazard Category:
 Acute Chronic Fire
 Pressure Reactive



Additional Manufacturer Warnings:

KEEP AWAY FROM CHILDREN AND ANIMALS!
 WEARING CONTACT LENSES IS INADVISABLE.

N/E: Not Established
 N/D: Not Determined
 N/A: Not Applicable



Additional Product Information:

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. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.