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MATERIAL SAFETY DATA SHEET
Howes Lubricator Fuel System
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Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Howes Lubricator Fuel System
Part Number(s): HGT112
Company Identification: R.B. Howes & Co., Inc.
60 Ocean State Drive
North Kingstown, RI 02852
Tel: 800-438-9080 or 401-294-5500
Emergency Telephone Number: Chemtrec 1-800-424-9300 or 703-527-3887 (24 hours)

Section 2. HAZARDS IDENTIFICATION

Emergency Overview

Combustible. Light yellow oil-like liquid with distinctive odor. Prolonged or repeated skin contact may cause skin irritation. Ingestion harmful or fatal if not treated. Prolonged exposure to heavy concentrations of vapors may cause irritation to mucus membranes and airway. Respiratory diseases such as asthma and skin conditions such as rashes, cuts or similar skin diseases are generally aggravated by exposure. Do not handle near excessive heat, sparks, flame or strong oxidants. Incompatible with (material to avoid) strong oxidants like liquid chlorine or concentrated oxygen. This material could be a slipping hazard if spilled.

OSHA Regulatory Status

This product contains components that are considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200).

Potential Health Effects

Eye Contact: May cause redness and mild irritation.
Skin Contact: Prolonged contact may cause mild irritation.
Ingestion: Can cause cramps and nausea.
Inhalation: Prolonged exposure may irritate the respiratory tract.
Carcinogen: OSHA: no
IARC: no
NTP: no



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Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>% by Volume</u>
Petroleum Distillates	64742-52-5	1.00 – 90.0
Aliphatic Hydrocarbon	8052-41-3	1.00 – 60.0

Section 4. FIRST AID MEASURES

Eye contact:

Flush eyes with plenty of water for several minutes. Get medical attention if irritation persists.

Skin contact:

Wash skin with plenty of soap and water for several minutes. Get medical attention if irritation persists.

Ingestion:

Do not induce vomiting. Water may be given slowly. Contact physician immediately.

Inhalation:

If irritation or headache occurs, remove to fresh air. If signs/symptoms continue, get medical attention.

Additionally:

In all cases, if symptoms persist, contact physician.

Section 5. FIRE FIGHTING MEASURES

Flash point:

173°F / 78.3°C (Rapid Flash Point Closed-Cup, ASTM D3243)

Autoignition temperature:

Data not available.

Upper flammable limit:

Data not available.

Lower flammable limit:

Data not available.

Extinguishing media:

Foam, CO2, water fog or spray.

Fire fighting equipment:

Recommend wearing self contained breathing apparatus. Avoid breathing vapors or fumes. Cool exposed containers with water spray.



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Unusual fire and explosion hazard:

Combustible liquid. May form combustible mixtures at or above the flash point. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld or expose containers to flame or other sources of ignition.

National Fire Protection Association (NFPA)

Flammability (red): 2
Health (blue): 1
Reactivity (yellow): 0
Special (white):

Section 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment (PPE). (see section 8) Soak up the spill with oil absorbents, sand or other non-combustible material. Place residue in suitable, covered and properly labeled container. Dispose in accordance with federal, state and local laws.

Section 7. HANDLING AND STORAGE

Keep away from sources of ignition. Keep container closed when not in use.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure Limits (PEL's):
8-hour Time Weighted Averages (TWA)

Petroleum Distillates	TWA: 2000 ppm
Aliphatic Hydrocarbon	TWA: 500 ppm

Engineering Controls

Good general ventilation should be sufficient to control airborne levels.

Respiratory Protection

Respirator use is not expected to be necessary under normal conditions of use. If application creates mist, wear a NIOSH approved respirator.

Skin Protection

For brief contact, no precautions other than wearing long sleeves should be needed. Use chemical resistant gloves such as neoprene.

Eye/Face Protection

Safety glasses with side shield, anti-splash goggles or face shield.



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Hygiene Recommendations

Avoid breathing mist or vapor. Avoid contact with skin and eyes. Keep an eyewash kit available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

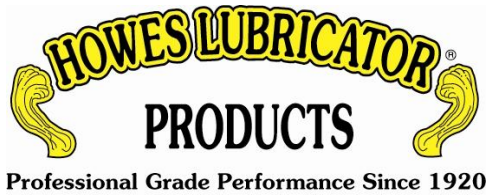
Appearance: Red
 Odor: Distinctive
 Physical State: Liquid
 Flash: 173°F / 78.3°C (Rapid Flash Point Closed-Cup, ASTM D3243)
 VOC: Not determined
 pH: Not determined
 Vapor Pressure: <.1mm Hg
 Vapor Density: >1 (air = 1)
 Boiling Point: 327°F / 164°C
 Freezing Point: Not determined
 Solubility in Water: Insoluble
 Specific Gravity: <.9 (H2O = 1)

Section 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal ambient temperature (70°F / 21°C) and pressure (14.7 psi / 760 mmHg).
 Conditions to Avoid: Combustible when exposed to excessive heat, sparks, flames or strong oxidants.
 Incompatible Materials: Contact with strong oxidizers like chlorine or concentrated oxygen.
 Hazardous Decomposition Products: Under fire conditions: Carbon oxides (CO, CO2)
 Hazardous Polymerization: Hazardous polymerization will not occur.

Section 11. TOXICOLOGICAL INFORMATION

	<u>Oral (rat) LD50</u>	<u>Dermal (rabbit) LD50</u>	<u>Inhalation (rat) LC50</u>
Petroleum Distillates	5,000 mg/kg	3,000 mg/kg	
Aliphatic Hydrocarbon	5,000 mg/kg	3,000 mg/kg	5,500 mg/m3



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Section 12. ECOLOGICAL INFORMATION

No ecotoxicological studies have been conducted on this product.

Section 13. DISPOSAL CONSIDERATIONS

Waste management should be in compliance with federal, state and local laws.

Section 14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties and mode of transportation.

49 CFR §173.150(f) Exceptions for Class 3 flammable and combustible liquids.

Howes part number(s): HGT112

Non-bulk packaging (\leq 119 gal. liquid; \leq 882 lbs. solid):

This product is non hazardous when packaged in non-bulk packaging.

Howes part number(s): N/A

Bulk packaging ($>$ 119 gal. liquid; $>$ 882 lbs. solid):

This product is hazardous when packaged in bulk packaging and the Proper Shipping Name would be:

Proper Shipping Name:	Petroleum distillates, n.o.s.
UN Identification Number:	UN1268
Hazard Class – Primary:	3
Packing Group:	III
Flash Point:	173°F / 78.3°C

49 CFR §172.101 (Appendix B) List of Marine Pollutants

This product is not a marine pollutant as defined in 49 CFR §171.8.



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Section 15. REGULATORY INFORMATION

U.S. Regulations:

Clean Air Act (CAA) 112(r) Accidental Release Prevention Substances: No products were found.

Clean Water Act (CWA) 307 Priority Pollutants: No products were found.

Clean Water Act (CWA) 311 Hazardous Substances: No products were found.

CERCLA 302 Hazardous Substances: No products were found.

Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986: (Known to cause cancer): No products were found.

SARA 302/304 Emergency Planning and Notification Substances: No products were found.

SARA 313 Toxic Chemical Notification: No products were found.

TSCA Inventory Status: All components are included or are exempted from listing on the US Toxic Substances Control Act Inventory.

Section 16. OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health (Blue)	1
Flammability (Red)	2
Reactivity (Yellow)	0
Personal Protection (White)	B

MSDS PREPARATION

Prepared By: VP of Logistics
Issue Date: September 12, 2011
Supersedes Date: August 26, 2011

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