

MSDS SHEET 0046800

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Material Safety Data Sheet

Date of issue: July 5, 2012 | Revision Date: | Revision Number:

Imperial Supplies Part Number: 0046800

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:

R.B. Howes & Co., Inc.

60 Ocean State Drive

North Kingstown, RI 02852

Telephone: 800-438-9080 or 401-294-5500

Emergency Phone: Chemtrec 1-800-424-9300 or 703-527-3887 (24 hours)

Product Name: Howes Lubricator Diesel Treat

Product Code(s): 103060, 103061, 103062, 103064, 103065, 103066, 103068, 103070

Recommended Use:

UN-Number:

Product Type:

2. HAZARDS IDENTIFICATION

Emergency Overview: Combustible. Light amber 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.

Appearance: Light amber | Physical State: Liquid | Odor: Distinctive

Potential Health Effects:

Principle Routes of Exposure

Acute Effects:

Eyes | May cause redness and mild irritation.
Skin | Prolonged contact may cause mild irritation.
Inhalation | Prolonged exposure may irritate the respiratory tract.
Ingestion | Can cause cramps and nausea.

Notes:

Chronic Effects:

Eyes |
Skin |
Inhalation |
Ingestion |
Notes:

Aggravated Medical Conditions

Environmental Hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/Ingredient Name	CAS-No	Weight%	ACGIH, TLV-TWA	OSHA-PEL	Other
Petroleum Distillates	64742-46-7	1.00 - 70.0			
Aliphatic Hydrocarbon	8052-41-3	1.00 - 50.0			
1,2,4 Trimethylbenzene	95-63-6	0.50 - 1.50			
1,3,5 Trimethylbenzene	108-67-8	0.01 - 0.60			
Trimethylbenzene	25551-13-7	0.01 - 0.30			
Ethylbenzene	100-41-4	0.01 - 0.05			
Vinyl Acetate	108-05-4	0.01 - 0.05			

Notes

4. FIRST AID MEASURES

General Advice

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

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

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

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

Notes to Physician |

Protection of |

First-aiders |

Notes: | In all cases, if symptoms persist, contact physician.

5. FIRE-FIGHTING MEASURES

Flammability/Flammable properties |

Flash point | 150°F / 65.5°C (Rapid Flash Point Closed-Cup,
| ASTM D3243)

Recommended Extinguishing Media | Foam, CO2, water fog or spray.

Special Fire-Fighting Procedures |

Explosion Data | 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.

Sensitivity to Mechanical |

Impact	
Sensitivity to Static	
Discharge	
Specific Hazards from	
Chemical	
Protective Equipment	Recommend wearing self contained breathing apparatus. Avoid breathing vapors or fumes. Cool exposed containers with water spray.

NFPA	Health Hazard: Flammability: 2 Instability: Physical Hazard
1	0

HMIS	Health Hazard: Flammability: 2 Physical	PPE: B
1	Hazard:0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate personal protective equipment (PPE). (see section 8)

Environmental Precautions

Methods for Containment

Methods for Cleaning Up: 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.

Notes

7. HANDLING AND STORAGE

Handling: Keep away from sources of ignition.

Storage: Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	OTHER
Petroleum		TWA: 2000 ppm		
Distillates				
Aliphatic		TWA: 500 ppm		
Hydrocarbon				
1,2,4		TWA: 25 ppm		
Trimethylbenzene				
1,3,5		TWA: 25 ppm		
Trimethylbenzene				
Trimethylbenzene		TWA: 25 ppm		
Ethylbenzene		TWA: 100 ppm		
Vinyl Acetate		TWA: 10 ppm		

Engineering Measures: Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eyes/Face	Safety glasses with side shield, anti-splash goggles
Protection	or face shield.

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

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

Ventilation/Other |
Hygiene Measures: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light amber	Odor	Distinctive
Odor Threshold		Physical State	Liquid
Color		Viscosity	
pH	Not	Percent Volatile,	
	determined	wt. %	
Flash Point	150Å°F /	Auto-ignition	
	65.5Å°C (Rapid	Temperature	
	Flash Point		
	Closed-Cup,		
	ASTM D3243)		
Decomposition		Boiling Point/ Range	327Å°F / 164Å°C
Temp			
Melting		Freezing Point	Not determined
Point/Range			
Flammability		Explosion Limits	
Specific Gravity	<.9 (H2O = 1)	Water Solubility	Insoluble
Solubility		Evaporation Rate	
Vapor Pressure	<.1mm Hg	Vapor Density	>1 (air = 1)
VOC content, wt.	823 (g/l)		
%			

Notes: Vapor Density: >1 (air = 1)

10. STABILITY AND REACTIVITY

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

Notes

11. TOXICOLOGY INFORMATION

Acute Toxicity:

Product	
Information	
Inhalation	
Eye Contact	
Skin Contact	
Ingestion	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum	5,000 mg/kg	3,000 mg/kg	
Distillates			
Aliphatic	5,000 mg/kg	3,000 mg/kg	5,500 mg/m3

Hydrocarbon			
1,2,4	5,000 mg/kg		3160 mg/kg 18,000 mg/m3
Trimethylbenzene			
1,3,5	23,000 mg/kg		24,000 mg/m3
Trimethylbenzene			
Trimethylbenzene	8,970 mg/kg		
Ethylbenzene	3,500 mg/kg	17,800 mg/kg	55,000 mg/m3
Vinyl Acetate	2,900 mg/kg	2,335 mg/kg	11,400 mg/m3

Chronic Toxicity|

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylbenzene		Group 2B,	no	No
		possible		
		human		
		carcinogen		
		ic		
Vinyl Acetate		Group 2B,		
		possible		
		human		
		carcinogen		
		ic		

Target Organ Effects

12. ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicological studies have been conducted on this product.

The Environmental impact of this product has been fully investigated

Chemical Name	Toxicity to	Toxicity to	Tox, to	Daphnia Magna
	Algea	Fish	Microorganisms	(water flea)

Notes

13. DISPOSAL CONSIDERATIONS

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

Contaminated Packaging

US EPA Waste number

Notes

14. TRANSPORTATION 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 Â§173.150(f) Exceptions for Class 3 flammable and combustible liquids.

Howes part number(s): 103060, 103061, 103062, 103064, 103065, 103066, 103068, 103070

Non-bulk packaging (? 119 gal. liquid; ? 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: 150°F / 65.5°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.

DOT

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
Description	
Emergency Response	
Guide Number	

TDG

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
Description	

MEX

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
Description	

ICAO

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
Description	

IATA

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
ERG Code	
Description	

IMDG/IMO

UN-Number	
Proper Shipping name	
Hazard Class	
Packing Group	
EmS No.	
Description	

RID

UN-Number	
Proper Shipping	

name |
Hazard Class |
Packing Group |
Classification Code|
Description |
ADR/RID-Labels |

ADR
UN-Number |
Proper Shipping |
name |
Hazard Class |
Packing Group |
Classification Code|
Description |
ADR/RID-Labels |

ADN
UN-Number
Proper Shipping name
Hazard Class
Packing Group
Classification Code
Special Provisions
Description
Hazard Labels
Limited Quantity

15. REGULATORY INFORMATION

International Inventories

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

DSL
EINECS
ENCS
IECSC
PICCS
AICS

U.S. Federal Regulations

SARA 313: SARA 313 Toxic Chemical Notification: Ethylbenzene, 1,2,4 Trimethylbenzene, Vinyl Acetate
SARA 311/312 Hazard Categories
Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactive Hazard

Clean Water Act:

Clean Air Act (CAA) 112(r) Accidental Release Prevention Substances: Vinyl Acetate.
Clean Water Act (CWA) 307 Priority Pollutants: Ethylbenzene.
Clean Water Act (CWA) 311 Hazardous Substances: Ethylbenzene, Vinyl Acetate.

CERCLA: CERCLA 302 Hazardous Substances: Ethylbenzene RQ 1,000 lbs.

U.S. State Regulations: Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986: (Known to cause cancer) Ethylbenzene.

U.S. State Right-to-Know Regulations

International Regulations

Canada

16. OTHER INFORMATION

Prepared By: VP of Logistics

Revision Date:

Company: R.B. Howes & Co., Inc.

Revision number:

Telephone number: 800-438-9080 or 401-294-5500

Notes

Other Information

Disclaimer information: The recommendations and data presented herein are based on sources considered to be reliable. Any use inconsistent with our recommendations may affect the risk characterization. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use of this information or the use of the product. R.B. Howes & Co., Inc. expressly disclaims all liability for loss or damage, including consequential loss, or injury to persons (including death) arising directly or indirectly from reliance upon the information or misuse of the material.

END OF MATERIAL SAFETY DATA SHEET

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