

### Section 1. Product and Company Identification

<b>Product Name</b>	: Ingersoll Rand # 50 Oil
<b>Synonym</b>	: Not Available
<b>Product Use</b>	: Lubricant
<b>Validation Date</b>	: 04/11/2011
<b>In Case of Emergency</b>	: <b>1-800-TOOL HLP</b> <b>1-800-866-5457</b>
<b>MSDS authored by:</b>	: Ingersoll Rand Industrial Technologies 800-A Beaty Street, P.O. Box 1600, Davidson, NC 28036

### Section 2. Hazards identification

#### Hazardous Materials Identification System (HMIS) :

	Health 1	Flammability 1	Reactivity 0
<b>Chemical Name</b>	: Not Applicable - Mixture		
<b>Chemical Family</b>	: Petroleum Hydrocarbon		
<b>Product Appearance and Odor</b>	: Amber Liquid, petroleum odor		
<b>Route of Exposure</b>	: Inhalation and skin contact		
<b>Potential Health Effects</b>	: Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis. Product contacting the eye may cause irritation. Product has a low order of oral and dermal toxicity. Possible aspiration hazard. Induced vomiting may cause aspiration of product into the lungs.		
<b>Carcinogenicity</b>	: None		
<b>OSHA Designation</b>	: None		
<b>NTP Designation</b>	: None		
<b>IARC Designation</b>	: None		
<b>Signs/Symptoms</b>	: Skin and eye irritation, defatting of skin, nausea and vomiting.		

### Section 3. Composition / Information on Ingredients

Chemical Name	CAS #(s)	Percent
Petroleum based lubricating oil	64742-54-7, 64742-65-0	>99%
<b>OSHA PEL TWA</b>	5 mg/m <sup>3</sup>	
<b>ACGIH TLV TWA</b>	5 mg/m <sup>3</sup>	
<b>ACGIH STEL/Ceiling</b>	Not provided	
Chemical Name	CAS #(s)	Percent
Butylated hydroxytoluene	128-39-2	<1%
<b>OSHA PEL TWA</b>	Not established	
<b>ACGIH TLV TWA</b>	Not established	
<b>ACGIH STEL/Ceiling</b>	Not provided	

### Section 4. First Aid Measures

<b>Eye Contact</b>	: Flush with clear water for at least 15 minutes. If irritation persists, seek medical attention.
<b>Skin contact</b>	: Remove contaminated clothing and wash skin thoroughly with soap and water.
<b>Inhalation</b>	: Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove to fresh air and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.
<b>Ingestion</b>	: If ingested, do not induce vomiting. Call a physician immediately.

## Section 5. Fire-Fighting Measures

**Flash Point** : 177 °C (350 °F)  
**Flash Point Method** : COC  
**Auto-ignition Temperature** : Not established  
**National Fire Protection Association (NFPA) :**

Health	Flammability	Reactivity
1	1	0

**Upper Flammable or Explosive Limits** : Not established

**Lower Flammable or Explosive Limits** : Not established

**Extinguishing Media** : Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure.

**Fire Fighting Procedures** : Minimize breathing gases, vapor, fumes, and smoke, or decomposing products. Do not enter any enclosed or confined area without proper protective equipment and breathing apparatus.

## Section 6. Accidental Release Measures

**Leak Response** : Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

**Disposal Methods** : Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility. (Consult federal, state, or local authorities for proper disposal procedures.)

## Section 7. Handling and Storage

**Handling procedures** : Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

## Section 8. Exposure Controls / Personal Protection

**Ventilation** : Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations or vapor in air. Use local exhaust to capture vapor, mist or fumes, if necessary. Workplace environment conditions vary widely. Therefore design criteria for ventilation cannot be specified in a MSDS.

**Respiratory Protection** : Use only NIOSH approved equipment. Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or vapor respirator type under misting conditions. Use can or cartridge, gas or vapor respirator type under conditions exceeding TWA standard.

**OSHA PEL TWA** : 5 mg/m<sup>3</sup>

**ACGIH TLV TWA** : 5 mg/m<sup>3</sup>

**Protective Gloves** : Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**Eye Protection** : Use splash goggles or face shield when eye contact may occur due to splashing or spraying of material.

**Other Protective Equipment** : Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

**Personal Hygiene** : There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices. Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners, followed by washing thoroughly with soap and water.

## Section 9. Physical and Chemical Properties

<b>Physical State/Appearance</b>	: Amber liquid, petroleum odor	<b>Flash Point</b>	: 177 °C (350 °F)
<b>p/H</b>	: Not rated	<b>Flash Point Method</b>	: COC
<b>Decomposition Temperature</b>	: Not available	<b>Solubility In Water</b>	: Nil
<b>Vapor Pressure</b>	: < .01 mmHg @ 20 °C	<b>Evaporation Point (n-Butyl Acetate = 1)</b>	: Not available
<b>Vapor Density (Air = 1)</b>	: > 5	<b>VOC Content</b>	: 0.11 lb/gal
<b>Boiling Range</b>	: Not available	<b>Viscosity</b>	: Unknown
<b>Melting Point</b>	: Not applicable	<b>Specific Gravity (25 °C/25 °C) (Water = 1)</b>	: < 1.0

## Section 10. Stability and Reactivity

<b>Chemical Stability</b>	: Yes
<b>Conditions To Avoid</b>	: Open flames
<b>Incompatibilities with Other Materials</b>	: Strong oxidizers, concentrated oxygen, sodium or calcium hypochlorite for explosion hazard
<b>Hazardous Polymerization</b>	: No
<b>Hazardous Decomposition Products</b>	: (Under fire conditions) Smoke, fumes, carbon monoxide, and other decomposition products in case of incomplete combustion.

## Section 11. Toxicological Information

<b>Oral (Acute)</b>	: Not established
<b>Dermal (Acute)</b>	: Not established
<b>Eye</b>	: Not established
<b>Inhalation (Acute)</b>	: Not established
<b>Chronic, Subchronic, Etc.</b>	: Not established
<b>Medical Conditions Aggravated by Exposure</b>	: Not established
<b>Toxicological Paragraph</b>	: This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA

## Section 12. Ecological Information

<b>Ecological Paragraph</b>	: Not established
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## Section 13. Disposal Considerations

<b>Waste Disposal</b>	: Consult federal, state, or local authorities for proper disposal procedures. Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.
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## Section 14. Transport Information

<b>Transportation Information</b>	: Not regulated by Department of Transportation (DOT)
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## Section 15. Regulatory Information

<b>Applies to all ingredients</b>	:
<b>SARA</b>	: This material is not known to contain any chemicals at a concentration of greater than 1.0 percent or carcinogenic chemicals at a concentration greater than .01 percent.
<b>US Federal</b>	: Not provided
<b>State</b>	: Not provided

## Section 16. Other Information

<b>Disclaimer</b>	: The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse use beyond our control, seller makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.
<b>Other Information</b>	: Not available