

**Section 1: Product and company identification**

- 1.1 Product name: **IRM 905 OIL**
- 1.2 Recommended use of the chemical and restrictions on use:
- Recommended use: ASTM Reference Testing Oil
- Restrictions on use: Commercial use only.
- 1.3 Manufacturer/Supplier/Distributor Information:

Manufacturer / Distributor: R. E. Carroll, Inc.  
Website: [www.recarroll.com](http://www.recarroll.com)  
Address: 1570 North Olden Avenue  
Trenton, NJ 08638  
USA  
Email: [orders@recarroll.com](mailto:orders@recarroll.com)  
Phone: 609-695-6211  
Fax: 609-695-0102

- 1.4 Emergency telephone number:

In the US: For a transport accident or leak, fire or major spill, call CHEMTREC, (800) 424-9300.  
For International CHEMTREC assistance, call 1-703-527-3887 (collect calls accepted).

Read the entire SDS for a complete hazard assessment.

**Section 2: Hazards identification**

- 2.1 GHS Classification: Not classified  
This SDS meets the requirements of GHS Revision 3.

- 2.2 Label elements including precautionary: None needed

Symbol: None needed

Signal word: None needed  
Hazard Statement: None needed

Precautionary Statements: None needed

Other hazards which are not included in the classification criteria: Slipping Hazard.

**Section 3: Composition/information on ingredients:**

Chemical name	CAS No.	Content (%)
SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL	64741-88-4	100 - 100

**Section 4: First aid measures**

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

4.1 Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

4.2 Skin contact:

Wash skin with plenty of soap and water. If redness, itching or burning sensation develops, seek medical attention. For contact with heated product, flush immediately with plenty of cool water for at least 20 minutes. Get medical attention. Wash contaminated clothing before use.

4.3 Eye contact:

Immediately flush eyes thoroughly with water for several minutes. Remove contact lenses after one to two minutes and continue flushing for several more minutes. If redness, itching or burning sensation develops, seek medical attention.

4.4 Ingestion:

DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.

4.5 Acute and delayed symptoms/effects:

Eye Contact:	Excessive exposure to mists or vapors generated by heat may cause irritation to eyes.
Skin Contact:	Practically non-toxic if absorbed through the skin. Prolonged or repeated contact may dry skin and cause mild irritation
Ingestion:	Harmful effects not anticipated from swallowing small amounts
Inhalation:	Excessive exposure to mists or vapors generated by heat may cause irritation to eyes, nose, throat, lungs, and respiratory tract.
Chronic health effects:	Chronic exposure may cause drying and cracking of skin and respiratory irritation
Relevant routes of exposure:	Eye, skin contact, inhalation.

4.6 Indication of immediate medical attention and notes for physicians:

Persons with pre-existing skin, eye, or respiratory conditions may be at an increased risk from the irritant or allergenic properties of this material. Attending physician should treat exposed patients symptomatically.

**Section 5: Fire-fighting measures**

5.1 Extinguishing media:

Suitable extinguishing media:

Use foam, carbon dioxide (CO<sub>2</sub>) or dry chemical to extinguish fire. Limit use of water spray to cool fire-exposed containers and to protect personnel. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

Unsuitable extinguishing media:

For this product, no limitations of extinguishing agents are given. Forceful application of fire extinguishing agents or water spray may spread burning material.

5.2 Special hazards arising from the chemical:

Unusual fire and explosion hazards None known.

**Hazardous Combustion Products:**

During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to Carbon monoxide, Carbon dioxide.

**5.3 Special protective equipment and precautions for firefighters**

**Fire Fighting Procedures:**

Keep personnel away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

**Special Protective Equipment for Firefighters:**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove ignition sources. Avoid skin and eye contact. Evacuate personnel to safe areas. Spilled material may cause a slipping hazard. Use appropriate safety equipment. See section 8 for information on personal protection equipment.

**6.2 Environmental precautions and protective procedures:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, sewers, waterways, and/or groundwater.

**6.3 Methods and material for containment and cleaning up:**

Contain spilled material if possible. Sweep up using non-sparking tools. Collect in suitable and properly labeled containers. See section 13, Disposal Considerations, for additional information.

**Section 7: Handling and storage**

**7.1 Precautions for safe handling:**

No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. Do not eat, drink, and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage (including any incompatibilities):**

Store in cool place. Avoid heat and ignition sources. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with good manufacturing practices. NFPA class IIIB storage. Flash point is greater than 200 degrees F.

**Section 8: Exposure controls and personal protection**

Consult With a Health and Safety Professional for Specific Selections

8.1 Control parameter:  
Occupational exposure limits

US. OSHA Table 2-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Oil Mist, mineral (-)	PEL	5 mg/m <sup>3</sup>	Mist

US. ACGIH Threshold Limit Values

Oil Mist, mineral (-)	TWA	5 mg/m <sup>3</sup>	inhalable fraction, Mist
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Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

Mexico. Occupational Exposure Limit Values

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist
	TWA	5 mg/m <sup>3</sup>	Mist

8.2 Appropriate engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.3 Personal protective equipment:

Eye protection:

Use safety glasses. If there is a potential for exposure to mists which could cause eye discomfort, wear chemical goggles or use a full-face respirator.

Body protection: Wear clean body-covering clothing to prevent skin exposure.

Hand protection:

Contact should be minimized. Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Polyethylene; Polyvinyl chloride (PVC); Neoprene; Nitrile; Polyvinyl alcohol; Viton; Selection of gloves will depend on the task.

Respiratory protection:

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust mist filters or HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-face piece airline respirator in the positive pressure mode with emergency escape provisions

Other:

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyvinyl chloride (PVC); Neoprene; Nitrile; Viton; Polyurethane. Remove contaminated clothing and wash before reuse. For non-fire emergencies, respiratory protection may be necessary and wear appropriate protective clothing to avoid contact with material.

Have eyewash station in work area. Do not consume or store food in the work area. Wash hands before smoking or eating.

**Section 9: Physical and chemical properties**

Appearance:	Amber liquid
Odor:	Mild
Odor threshold:	No data available
pH:	No data available
Melting point:	No test data available
Boiling point:	No data available
Flash point:	469F (coc)
Evaporation rate:	No data available
Flammability:	Will burn
Upper/lower flammability or Explosive limits:	No data available
Vapor pressure:	0.0001 mmHg
Solubility:	Insoluble
Vapor density:	Not applicable
Relative density:	< 1
Specific Gravity	0.88
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Water Solubility	Insoluble
Explosive Properties	Not an explosive
Viscosity (F)	569 I SUS @ 100F
Viscosity (C)	108 I CsT @ 40F
% Volatile	Nil

**Section 10: Stability and reactivity**

- 10.1 Chemical stability: Stable under normal temperature conditions and recommended use.
- 10.2 Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.
- 10.3 Conditions to avoid: Strong heating, sparks, open flames, moisture.
- 10.4 Incompatible materials: Strong oxidizing agents, strong acids
- 10.5 Hazardous decomposition products:  
Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. Fumes can be irritating. In case of fire, possible emission of carbon monoxide, carbon dioxide.
- 10.6 Hazardous Polymerization: Will not polymerize.

**Section 11: Toxicological information**

11.1 Information on the likely routes of exposure:

Inhalation, skin and eye contact:

11.2 Information on toxicological effects:

Acute toxicity:

Oral	No data available.
Inhalation	No data available.
Dermal	No data available.
Oral	No data available.
Inhalation	No data available.
Dermal	No data available.

Skin corrosion/irritation: Non-irritating, Prolonged skin contact may lead to drying or cracking of the skin due to water absorption properties.

Serious eye damage/irritation: none irritating.

Respiratory or skin sensitization: Not known to be a sensitizer.

Germ Cell Mutagenicity: No information available.

Reproductive Toxicity: No information available.

11.3 Numerical measures of toxicity: No information available.

11.4 Carcinogenicity

This product does not contain any material at > 0.1% that is listed by IARC, NTP ACGIH or OSHA.

**Section 12: Ecological information**

Oil spills are considered generally hazardous to the environment and both federal and local regulations commonly apply to response and remediation.

- 12.1 Aquatic and terrestrial ecotoxicity: No data.
- 12.2 Persistence and degradability: Insignificant Degradability
- 12.3 Bioaccumulative potential: No information available.
- 12.4 Mobility in soil: No information available.
- 12.5 Other adverse effects: No other relevant information available.

**Section 13: Disposal considerations**

13.1 Disposal methods:

Uncontaminated discarded product is not a hazardous waste under RCRA. Do not dump into any sewers, on the ground or into any body of water. All disposal practices must comply with all federal, state, and local laws and regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service for disposal.

13.2 Container disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue. Puncture or otherwise destroy empty container and dispose of in a facility permitted for nonhazardous waste.

**Section 14: Transport information**

- 14.1 UN number: Not regulated.
- 14.2 UN proper shipping name: PETROLEUM OIL
- 14.3 Transport hazard class: Not regulated.
- 14.4 Packing group (if applicable): Not regulated.
- 14.5 Marine Pollutant (Yes/No): No
- 14.6 Special precaution: No information available.

**Section 15: Regulatory information**

US Regulations

15.1 SARA Section 311/312 Hazard Categories

- Acute Hazard: No
- Chronic Hazard: No
- Fire Hazard: No
- Reactive Hazard: No
- Sudden Pressure Release: No

15.2 CERCLA Hazardous Substance:

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

15.3 SARA Section 302 Extremely Hazardous Substances:

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min</u>	<u>Max</u>
None		

15.4 SARA Section 313 Toxic Chemicals:

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min</u>	<u>Max</u>
None			

15.5 California Proposition 65:

This product is not known to contain a chemical known to the State of California to cause cancer or reproductive harm.

15.6 Pennsylvania Worker and Community Right To Know Act:

Hazardous Substances: none

15.7 New Jersey Worker and Community Right To Know Act:

Hazardous Substances: None listed.

15.8 International Regulations

Canadian Regulations:

WHMIS Statement: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*. This product is classified as not controlled in accordance with the Canadian Controlled Products Regulations

This product complies with RoHS (Restriction on Hazardous Substances).

Other requirements: Inventory Listing:

<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory	LISTED
<b>DSL</b> - Canadian Domestic Substances List	LISTED
<b>NDSL</b> Non-Domestic Substances List	NOT LISTED
<b>EINECS</b> - European Inventory of Existing Chemical Substances/European	LISTED
<b>ELINCS</b> List of Notified Chemical Substances	NOT LISTED
<b>ENCS</b> - Japan Existing and New Chemical Substances	LISTED
<b>IECSC</b> - China Inventory of Existing Chemical Substances	LISTED
<b>KECL</b> - Korean Existing and Evaluated Chemical Substances	LISTED
<b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances	LISTED
<b>Australia</b> Australian Inventory of Chemical Substances	LISTED

**Section 16: Other information**

16.1 Revision information:

Date of the previous revision: 02/16/2015

Date of this revision: 11/28/2023 (Version 3)

Revision summary: Reviewed and updated to meet customer review schedule requirement. No material changes.

#### 16.2 Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	Health	Fire	<u>Reactivity</u>	P
NFPA	O	1	0	PI
HMIS	O	1	0	X

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, the customer must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product SDS. This information is intended solely for the use of individuals trained in the particular hazard rating system.

16.3 Training advice: Provide adequate information, instruction and training for operators.

16.4 Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Governmental Industrial Hygienists
BEI	Biological Exposure Index
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
ppm	parts per million
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

Action Level An exposure value set by OSHA that is lower than the PEL that will trigger the need for activities such as exposure monitoring and medical surveillance.

16.5 Declare to reader:

The information provided in this material Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**END OF SDS**