



**RADCOLUBE® 2110 HYDRAULIC FLUID
MATERIAL SAFETY DATA SHEET**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

RADCOLUBE® 2110 HYDRAULIC FLUID, PETROLEUM INHIBITED
Meets Military Specification MIL-PRF-17672D (2110-TH), ISO GRADE 46
Qualification# NMCPHC Ltr 6261 Ser IH17/000550 Dated: 11 APRIL 2008
NSNs: 9150-00-753-4799, 9150-00-985-7234 & 9150-00-582-5480

Company Identification

Radco Industries Inc.
PO BOX 305
LaFox, IL 60147

ISO 9001:2000 Certification Number: C2009-00209

Customer information number: 1-630-232-7966
Shipping emergency or off hour rush orders number: 1-630-336-6728

EMERGENCY TELEPHONE NUMBER

Advisory Office in case of poisoning:

Chemtrec (North America): 1-800-424-9300
Chemtrec al (International): 1-703-527-3887

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	% Content	CAS
Highly Refined Petroleum Base Stocks	98-99.95	64743536
Proprietary Additive Package	0.05-2.00	None

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Potential Health Effects

Eye

No significant irritation expected.

Ingestion

Significant adverse health effects are not expected if small amounts (less than a mouthful) are swallowed.

Inhalation

Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. Harmful if aspirated into lungs.

Skin Contact

No significant irritation expected.

**SECTION 3. HAZARDS IDENTIFICATION continued****HMIS**

Health: 0	Fire: 1	Reactivity: 0
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NFPA Codes

Health: 0	Fire: 1	Reactivity: 0
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SECTION 4. FIRST AID MEASURES**Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion

First aid is normally not required. Seek medical attention if discomfort occurs.

Inhalation

If adverse effects occur, remove to uncontaminated area.

Skin

Wash exposed skin with soap and water.

SECTION 5. FIRE FIGHTING MEASURES**Suitable Extinguishing Media**

Agents approved for Class B hazards:

- Dry chemical
- Carbon dioxide
- Halogenated agents
- Foam
- Steam
- Water fog

Fire Fighting Equipment

Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None Identified.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Notification Procedures:**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent fry creeks. The National Response Center can be reached at (800)424-8802

SECTION 7. HANDLING AND STORAGE**Handling**

Do not breathe vapors. Avoid ingestion. **Static Accumulator:** This product is a static accumulator.

Storage

Store at temperatures between 10°C and 50°C. Keep containers closed when not in use.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure guidelines**

Component	CAS#	Exposure Limits
Highly Refined Petroleum Base Stocks (OIL MIST)	64743536	5 mg/m ³ 8 Hrs (OSHA/ACGIH)

Eye protection

Safety glasses, chemical goggles, or face shields recommended to prevent contact.

Skin protection

Wear clothing and gloves that cannot be penetrated by chemicals or oil.

Ventilation

Use with adequate ventilation. Avoid breathing vapor. If heated and ventilation is inadequate, use NIOSH certified respirator, which will protect against organic vapor.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid. Light amber color
Odor:	Light Bland Petroleum odor
pH:	Not determined
Boiling point:	> 316 C
Flash point (COC):	> 200 C
Fire point (COC):	Not determined
Flammability Classification:	Not flammable
Auto ignition temperature:	Not determined
Solubility in water:	Negligible, < 0.1%
Specific gravity at 15.6°C (60°F):	0.85
Pour Point:	< -15 C

SECTION 10. STABILITY AND REACTIVITY**Conditions to avoid**

Temperature sources which induce thermal decomposition.

Dangerous reactions

No dangerous reactions known.

Hazardous polymerization

Will not occur



SECTION 10. STABILITY AND REACTIVITY continued

Hazardous decomposition products

Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

Materials to avoid

Avoid contact with strong oxidizing agents.

Stability

Stable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

Dermal LD50

Testing not conducted. See other Toxicity Data.

Eye

Testing not conducted. See other Toxicity Data.

Inhalation LD50

Testing not conducted. See other Toxicity Data.

Oral LD50

Testing not conducted. See other Toxicity Data.

Skin irritation

Testing not conducted. See other Toxicity Data.

Sensitization

Testing not conducted. See other Toxicity Data.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic toxicity

No data available

SECTION 13. DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

Do not allow product to reach ground water, water course, or sewage systems.

RCRA

This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. EPA definitions (40 CFR Subpart C). This material could also become hazardous waste if it is mixed with or comes into contact with a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.



SECTION 14. TRANSPORT INFORMATION

U.S. Dept. of Transportation Shipping Name

Not regulated.

Canadian Transportation of Dangerous Goods Shipping Name

Not regulated.

European Rail/Road (ADR/RID) Shipping Name

Not regulated.

Air (ICAO/IATA) Shipping Name

Not regulated.

Sea (IMO/IMDG)

Not regulated.

SECTION 15. REGULATORY INFORMATION

United States Regulatory Information

California (Proposition 65)

This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm.

CERCLA Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

Environmental Protection Agency

None of the ingredients are listed

National Toxicology Program (NTP)

None of the ingredients are listed.

OSHA Hazard Communication Standard

Not hazardous per 29 CFR 1910.1200(d).

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)

Hazardous categories for this product are: Acute=no; Chronic=no; Fire=no; Pressure=no; Reactive=no.

SARA Title III Section 313 (40 CFR Part 372)

This product is not regulated under Section 313 of SARA and 40 CFR Part 372

U.S. Inventory (TSCA)

Listed on inventory.

International Regulatory Information

Australia Inventory (AICS)

Listed on inventory.



SECTION 15. REGULATORY INFORMATION continued

Canada Inventory (DSL)

All of the ingredients are listed.

Canada (WHMIS)

Not a controlled Product under Canada's Workplace Hazardous Material Information System.

China (CICS)

None of the ingredients are listed.

EC Inventory (EINECS/ELINCS)

In Compliance

International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

SECTION 16. OTHER INFORMATION

Product use: Hydraulic Fluid

Legend

CAS	Chemical Abstract Service Number
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
OSHA	Occupational Safety and Health Administration
STP	Standard temperature and pressure

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