



**RADCOLUBE® 21260-10
MATERIAL SAFETY DATA SHEET**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

RADCOLUBE® 21260-10 LUBRICATING OIL. COMBUSTION ENGINE, PRESERVATIVE BREAK-IN
Meets Military Specification MIL-PRF-21260E Qualification # MP-439 Date: 11 April 2011
NSN: 9150-00-111-0208

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 (International): 1-703-527-3887

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	% Content	CAS
MIXTURE	100%	Not applicable for mixtures

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Potential Health Effects

Eye

Not expected to cause eye irritation based on data from components of similar materials.

Ingestion

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

Inhalation

If material is misted or if vapors are generated from heating, exposure may cause irritation of the mucous membrane and the upper respiratory tract.

Skin Contact

Not expected to be a primary skin irritant based on data from components or similar materials. Prolonged or repeated skin contact from wet clothing with material may cause dermatitis.

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

Health: 0	Fire: 1	Reactivity: 0
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NFPA Codes

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

Immediately flush eyes with plenty of water for at least 30 minutes. Seek medical attention if eye irritation develops or persists.

Ingestion

DO NOT INDUCE VOMITING. Seek immediate medical attention.

Inhalation

Remove exposed person to uncontaminated area if adverse effects are observed.

Skin

Wash exposed skin with soap and water. Launder contaminated clothing before reuse.

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**Action to take for spills/leaks**

Personal protective equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Puck up free liquid for recycle and/or disposal. Residual material can be absorbed on inert material.

**SECTION 7. HANDLING AND STORAGE****Handling**

Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Wash thoroughly after handling. Empty container contains residue which may exhibit hazardous of product.

Storage

Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 degrees F (45 degrees C) for extended periods of time or if heat sources in excess of 250 degrees F (121 degrees C) are used.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits:**

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

Engineering Controls:

Use with adequate ventilation.

Eye protection

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

Skin protection

Nitrile gloves. 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:	Brown liquid.
Odor:	Mild.
pH:	Not determined
Boiling point:	Not determined
Flash point (COC):	185°C (365 F)
Fire point (COC):	Not determined
Flammability Classification:	Not flammable
Pour Point:	-39 °C
Solubility in water:	Insoluble.
Specific gravity at 15.6°C (60°F):	0.88
Viscosity at 100°C (212°F):	7.3 cSt



SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

Not determined.

Hazardous polymerization

Will not occur

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

Dermal Toxicity:

The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials

Inhalation Toxicity:

No data available in indicate product or components may be a toxic inhalation hazard.

Oral Toxicity:

The LD50 in rats is >5000 mg/Kg. Based on data from components or similar materials.

Chronic Exposure:

Chronic Toxicity:

No data available to indicate product or components present at greater than 1%

Carcinogenicity:

This product contains mineral oils which are considered to be severely refined and not considered carcinogenic under IARC. All the oils in this product have been demonstrated to contain less that 3% extractables by the IP346 test.

Mutagenicity:

No data available to indicate either product or components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity & Teratogenicity:

No data available to indicate either product or components present at greater than 0.1% will cause reproductive toxicity or birth defect.



SECTION 12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product

Ecological Fate:

Biodegradation:

At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data.
At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.

Bioaccumulation:

25% or greater of the components potentially bioconcentrate based on octanol/water coefficients.

Soil Mobility:

Not determined.

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.

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

This product is not regulated for transport.

SECTION 15. REGULATORY INFORMATION

California (Proposition 65)

This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: <0.05 ppm arsenic, <0.005 ppm cadmium, <0.005 ppm lead.

CERCLA Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

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)

From 0.5 to 1.5 percent zinc compounds contains 0.1% as Zn.



SECTION 15. REGULATORY INFORMATION continued

USA

All components of this material are in the US TSCA Inventory or are exempt.

Canada

All of the components are in compliance with the Canadian Environmental Protection Act and are present on the DSL

China (CICS)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

EU

All components are in compliance with the EC 7th Amendment Directive 92/32/EEC

Japan Inventory (MITI)

Listed on inventory.

Korea Inventory (ECL)

Listed on inventory.

Philippine Inventory (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Waste Control Act of 1999

This product to the best of our knowledge does not contain and is not manufactures with any Class I or Class II Ozone Depleting Chemicals (ODC's).

SECTION 16. OTHER INFORMATION

Product use: Lubricating Oil, Combustion Engine, Preservative Break In

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