



# RADCOLUBE® RHP5606

## SAFETY DATA SHEET

MIL-PRF-5606J HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE, AND ORDNANCE

Issue Date: 27 December 2013

Revision Date: 23 April 2018

Revision Number: 6.0

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### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Product Name:

RADCOLUBE® RHP5606

Specifications:

MIL-PRF-5606J

Qualification Numbers (Effective Date):

AFPET/PTPT 14-015 (16 September 2014)

AFPET/PTPT 16-003 (11 March 2016)

ISO 9001:2015 Certification Number:

C2015-00035

Military Symbol:

OHA

NATO Code:

H515

National Stock Numbers (NSN):

9150-00-252-6383

9150-00-223-4134

9150-00-082-7524

9150-00-265-9408

Quart

Gallon

5 Gallon Pail

55 Gallon Drum

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Petroleum base hydraulic fluid for use in the -54°C to +135°C (-65.2°F to 275°F) temperature range.

#### 1.3 Details of the supplier of the safety data sheet

Headquarters

Radco Industries, Inc.

700 Kingsland Drive

Batavia, IL 60510

CAGE Code 6ZS16

Manufacturing Facility

Radco Industries, Inc.



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39W930 Midan Drive  
LaFox, IL 60147  
CAGE Code 1RVC4

Customer information number: 1-630-232-7966

## 1.4 Emergency Telephone Number

Advisory Office in case of poisoning: Chemtrec  
Chemtrec (North America): 1-800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

Aquatic toxicity, chronic hazard

Aspiration hazard

Skin Irritation

Category 2

Category 1

Category 2

### 2.1 Label elements

#### Hazard pictograms:



Health Hazard



Environmental Hazard

#### Signal word:

**DANGER**

Classification of mixture is in accordance with United Nations (UN) Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition (2015), and United States Standard 29 CFR 1910 Occupational Safety and Health Standards.

#### Hazard statements

H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H411:	Toxic to aquatic life with long-lasting effects.

#### Precaution statements

P101:	If medical advice is needed, have product container or label at hand.
P202:	Do not handle until all safety precautions have been read and understood.
P261:	Avoid breathing dust/fume/gas/mist/vapours/spray
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.



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P301 + P331 + P315:	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
P303 + P353:	IF ON SKIN (or hair): Rinse skin with water/shower.
P304 + P340 + P342 + P315:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get immediate medical advice/attention.
P305 + P351 + P338 + P310:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P306 + P363:	IF ON CLOTHING: Wash contaminated clothing before reuse.
P404:	Store in a closed container.
P501:	Dispose of contents/container to in accordance with local/regional/national/international regulation.

## 2.2 Other hazards

### PBT and vPvB

This product is not expected to be PBT and vPvB based on components.

### NFPA Hazard ID

Health: 1  
Flammability: 1  
Reactivity: 0

### HMIS Hazard ID

Health: 1  
Flammability: 1  
Reactivity: 0

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## SECTION 3. Composition/information on ingredients

### 3.1 Substances

#### Acrylic copolymer

Index number:  
CAS number:  
EC number:  
REACH number:  
Synonyms:

Not available

Trade secret

Trade secret

Not available

--

#### Dec-1-ene, dimers, hydrogenated

Index number:  
CAS number:  
EC number:  
REACH number:  
Synonyms:

Not available

68649-11-6

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500-228-5

01-2119493069-28

Polyalphaolefin; PAO; 1-Decene, dimer, hydrogenated; hydrogenated didecene

Distillate (petroleum), hydrotreated middle

Index number:

CAS number:

EC number:

REACH number:

Synonyms:

649-221-00-X

64742-46-7

265-148-2

01-2119489867-12

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Non-hazardous components

Index number:

CAS number:

EC number:

REACH number:

Synonyms:

Not available

Trade secret

Trade secret

Not available

Trade secret

**3.2 Mixtures****Description of mixture:**

Mixture of petroleum base oils and additives.

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
Distillate (petroleum), hydrotreated middle	64742-46-7	265-148-2	> 50%	Aquatic Chronic 2 - 411 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315	1
Acrylic copolymer	Trade secret	Trade secret	< 20%	Skin Irrit. 2 - H315 Asp Tox. 2 - H332	0
Dec-1-ene, dimers, hydrogenated	68649-11-6	500-228-5	Trade Secret	Acute Tox. 4 - H332 Asp. Tox. 1 - H304	0
Non-hazardous components	Trade secret	Trade secret	Trade Secret	Non-hazardous	0

M-Factor determinations are in accordance with UN GHS, sixth revised edition (2015).

See SECTION 16 for full text of the toxicity categories and H-statements listed in this section.

**Indicative occupational exposure limit values**

Component	Specific Concentration limits
Acrylic copolymer	None established
Dec-1-ene, dimers, hydrogenated	See SECTION 8 for exposure limits.



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Distillate (petroleum), hydrotreated middle	See SECTION 8 for exposure limits.
Non-hazardous components	None established

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### Eye contact

Upon accidental eye exposure, wash the eyes promptly with water for at least 20 minutes. If wearing contact lenses, remove them if safe to do so, and continue washing. Get medical attention immediately.

#### Ingestion

If swallowed, do not induce vomiting. Rinse mouth out with water. Get medical attention immediately.

#### Inhalation

If respiratory irritation, dizziness, or nausea occurs, move to fresh air and keep at rest in a comfortable position for breathing. If symptoms persist or unconsciousness occurs, seek immediate medical assistance.

#### Skin contact

Wash skin thoroughly with mild soap and plenty of water for at least 20 minutes. If irritation develops, seek medical advice.

#### Note to physicians

Treat symptomatically.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Acute symptoms

##### Eye exposure symptoms

Direct eye exposure may lead to redness and lacrimation (crying tears).

##### Ingestion symptoms

Small amounts may cause nausea. Large amounts may lead to abdominal obstruction (cramps), constipation or diarrhea.

##### Inhalation symptoms

May cause irritation of the nose, throat, and lungs. Can cause central nervous system depression, including as dizziness, lethargy, and drowsiness.

##### Skin exposure symptoms

Short-term exposure is not expected to cause irritation.

#### Delayed symptoms

##### Eye exposure symptoms

Seek medical attention if irritation persists.

##### Ingestion symptoms

Seek medical attention if abdominal obstruction, constipation or diarrhea

##### Inhalation symptoms

Seek immediate medical attention if respiratory irritation persists.

##### Skin exposure symptoms

Repeated exposure may lead to irritation. If rash develops, immediately seek medical attention.

### 4.3 Indication of any immediate medical attention and special treatment needed

Suggestions for clinical testing and medical monitoring for delayed effects are not known. Use first aid when applicable, and seek guidance from a medical physician for specific treatment.



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## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media includes alcohol-resistant foam, carbon dioxide, dry chemical or water fog.

### 5.2 Special hazards arising from the substance or mixture

No data is available.

### 5.3 Advice for firefighters

#### Fire-Fighting Equipment

Firefighter should wear normal protective equipment (full bunker gear) and positive-pressure contained breathing apparatus. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can cause environmental damage. Dike and collect water used to fight fires.

#### Special Fire-Fighting Procedures

Use water spray to cool fire-exposed containers and structures. If a rail or tank truck is involved in a fire, isolate for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Wear personal protective equipment (PPE). Eliminate sources of ignition, if safe to do so. Avoid breathing vapors or mist. Evacuate to designated safe areas.

#### For emergency responders

If possible, move individual to safe area, and treat symptomatically.

### 6.2 Environmental precautions

Contain spill, if safe to do so. Prevent from entering sewers or drains.

### 6.3 Methods and material for containment and cleaning up

Use oil absorbent material to soak up product on the ground. Should this product enter sewers or drains, it should be pumped out into an open vessel. The recovered material should be discarded as hazardous waste.

### 6.4 Reference to other sections

If appropriate, refer to SECTION 8 and SECTION 13 for additional information.

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## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment (PPE) when handling this product. Smoking, eating and drinking should be prohibited in the application area.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store in open or unlabeled containers. Keep container tightly closed in a dry and well-ventilated place.



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### 7.3 Specific end use(s)

Petroleum base hydraulic fluid for use in the -54°C to +135°C (-65.2°F to 275°F) temperature range.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Component	Occupational exposure limits
Acrylic copolymer	None established
Dec-1-ene, dimers, hydrogenated	None established
Distillate (petroleum), hydrotreated middle	ACGIH TLV: (United States, 4/2014) (inhalable fraction) AFS 2011:18 (Sweden, 12/2011) AFS 2011:18 (Sweden, 12/2011) STEL = 3 m NIOSH REL: (United States, 10/2013) (mist) NIOSH REL: (United States, 10/2013) STEL = (mist) OSHA PEL: (United States, 2/2013) TWA
Non-hazardous components	None established

### Biological exposure limits

None established for any of the disclosed components.

### 8.2 Exposure controls

#### Appropriate engineering controls

Practice general industrial hygiene. Do not eat, drink or smoke near product. Wash hands after handling. Remove clothing and wash separate from other laundry.

#### Personal protective equipment (PPE)

##### Eye/face protection

Safety glasses, chemical safety goggles and/or face shields are recommended when handling this product.

##### Skin protection

For extended handling, wear oil resistant gloves such as neoprene. Nitrile gloves may be appropriate for short handling periods use. Contact a government approved or accredited manufacturer for specific recommendations.

##### Other protections

Wear protective clothing ensuring minimal skin exposure. Protective clothing should be chemically impervious to oils and other solvents.

##### Respiratory protection

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

##### Environmental exposure controls

Do not allow product to reach ground water, water course, or sewage systems. Stop leaks, if safe to do so. Contain spills with absorbent or adsorbent materials.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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### 9.1 Information on basic physical and chemical properties

Appearance:	Red, clear liquid
Odor:	Odorless
Odor threshold:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Evaporation Rate (ASTM D972):	< 15% at 71°C (159.8°F) after 22 hours
Explosive properties:	Not available
Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Flash point Cleveland Open Cup (ASTM D92):	Not available
Flash point Pensky-Martens Closed Cup (ASTM D93):	93.5°C (199.4°F)
Initial boiling point and boiling range:	> 200°C
Melting point/freezing point:	< -69°C (-92.2°F)
Oxidizing properties:	Non-oxidizing
Partition coefficient (n-octanol/water), Log P <sub>ow</sub> :	Not available
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.86
Solubility in water:	Insoluble
Vapor density:	Not available
Vapor pressure:	Not available
Viscosity (ASTM D445):	21 mm <sup>2</sup> /s at 25°C (77°F)

### 9.2 Other information

No further information is available.

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## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Non-reactive in its original state.

### 10.2 Chemical stability

Stable in its original state.

### 10.3 Possibility of hazardous reactions

Does not occur.

### 10.4 Conditions to avoid

Oxidizing materials

### 10.5 Incompatible materials

Keep away from strong oxidizing or reducing agents, including acids, caustics, chlorites (bleach), halogens and peroxides.

### 10.6 Hazardous decomposition products

Decomposition of this product under fire conditions may produce carbon oxides, phenols, aminic constituents, and other decomposition products.

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## SECTION 11. TOXICOLOGICAL INFORMATION



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**11.1 Information on toxicological effects**

Acute toxicity	Method	Species	Result
	Dermal	Rat	LD <sub>50</sub> > 2000 mg/kg
Aspiration hazard	Test Method	Species	Result
Acrylic copolymer	--	--	No data available
Dec-1-ene, dimers, hydrogenated	OECD 403	Rat	Aspiration hazard, category 1
Distillate (petroleum), hydrotreated middle	OECD 403	Rat	Aspiration hazard, category 1
Non-hazardous components	--	--	Not expected to be hazardous.
Distillate (petroleum), hydrotreated middle	Dermal Inhalation Oral	Rabbit Rat Rat	LD <sub>50</sub> > 2000 mg/kg body weight LC <sub>50</sub> = 1.78 mg/L LD <sub>50</sub> > 5000 mg/kg body weight
Non-hazardous components	--	--	Not expected to be hazardous.

Eye damage / irritation	Test Method	Species	Results
Acrylic copolymer	--	--	Irritant
Dec-1-ene, dimers, hydrogenated	OECD 405	Rabbit	Not irritating
Distillate (petroleum), hydrotreated middle	OECD 405	Rabbit	Not irritating
Non-hazardous components	--	--	Not expected to be hazardous.

Germ cell mutagenicity	Test Method	Species	Results
Acrylic copolymer	--	--	No data available
Dec-1-ene, dimers, hydrogenated	OECD 471 OECD 474	<i>S. typhimurium</i> Mouse	Not mutagenic Not mutagenic
Distillate (petroleum), hydrotreated middle	--	--	No data available
Non-hazardous components	--	--	Not expected to be mutagenic.

Reproductive toxicity	Results
Acrylic copolymer	No data available
Dec-1-ene, dimers, hydrogenated	Not expected to be hazardous
Distillate (petroleum), hydrotreated middle	No data available
Non-hazardous components	Not expected to be hazardous.

**Respiratory sensitization**

No data available

Skin sensitization	Test Method	Species	Results
Acrylic copolymer	--	--	No data available
Dec-1-ene, dimers, hydrogenated	OECD 406	Guinea pig	Not sensitizing
Distillate (petroleum), hydrotreated middle	OECD 406	Guinea pig	Not sensitizing
Non-hazardous components	--	--	Not expected to be sensitizing.

Skin corrosion/irritation	Test Method	Species	Results
Acrylic copolymer	--	--	Irritant
Dec-1-ene, dimers, hydrogenated	OECD 404	Rabbit	Not irritating
Distillate (petroleum), hydrotreated middle	OECD 404	Rabbit	Not irritating
Non-hazardous components	--	--	Not expected to be irritating.

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Specific target organ toxicity (STOT)-repeated exposure	Method	Species	Results
Acrylic copolymer	--	--	No data available
Dec-1-ene, dimers, hydrogenated	--	--	No data available
Distillate (petroleum), hydrotreated middle	Oral	Rat	NOAEL ≥ 5 mL/kg body weight per day
Non-hazardous components	--	--	Not expected to be hazardous.

Specific target organ toxicity (STOT)-single exposure	Results
Acrylic copolymer	STOT single exposure, Category 3
Dec-1-ene, dimers, hydrogenated	No data available
Distillate (petroleum), hydrotreated middle	No data available
Non-hazardous components	Not expected to be hazardous.

**11.2 Other information**

See SECTION 16 for toxicity references.

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Aquatic Toxicity	Test Method	Species	Results
Acrylic copolymer	--	<i>L. macrochirus</i>	LC <sub>50</sub> = 2.2 mg/L after 96 hours
Dec-1-ene, dimers, hydrogenated	EPA OTS 797.1050 OECD 202 OECD 211	<i>P. subcapitata</i> <i>Daphnia sp.</i> <i>D. magna</i>	NOELR > 1000 mg/L WAF after 96 hours EL <sub>50</sub> > 1000 mg/L after 48 hours NOELR = 125 mg/L WAF after 21 days
Distillate (petroleum), hydrotreated middle	OECD 201 OECD 203 QSAR model	<i>Algae</i> <i>O. mykiss</i> <i>D. magna</i>	NOEL = 10 mg/L after 752 hours LL <sub>50</sub> > 1000 mg/L after 24 hours NOEL = 0.163 mg/L
Non-hazardous components	--	--	Not expected to be hazardous.

Terrestrial Toxicity	Test Method	Species	Results
Acrylic copolymer	--	--	No data available
Dec-1-ene, dimers, hydrogenated	OECD 222	<i>Eisenia sp.</i>	LC <sub>50</sub> > 1000mg/kg after 56 days EC <sub>50</sub> = 630 mg/kg after 56 days NOEC = 500 mg/kg after 56 days
Distillate (petroleum), hydrotreated middle	QSAR model	<i>Mallard duck</i>	NOEL > 5000ppm
Non-hazardous components	--	--	Not expected to be hazardous.

**12.2 Persistence and degradability**

Biodegradation	Test Method	Results
Acrylic copolymer	--	No data available
Dec-1-ene, dimers, hydrogenated	CEC L-33-T-82	CO <sub>2</sub> = 39.4%. Not readily biodegradable
Distillate (petroleum), hydrotreated middle	--	No data available
Non-hazardous components	--	No data available



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### 12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)		Results
Acrylic copolymer		No data available
Partition Coefficient n-octanol / water (Log K <sub>ow</sub> )		Results
Acrylic copolymer		No data available
Dec-1-ene, dimers, hydrogenated		No data available
Distillate (petroleum), hydrotreated middle		Log P <sub>ow</sub> > 4
Non-hazardous components		No data available

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#### ility in soil

Soil Mobility		Results
Acrylic copolymer		No data available
Dec-1-ene, dimers, hydrogenated		log K <sub>oc</sub> > 6.2
Distillate (petroleum), hydrotreated middle		Log K <sub>ow</sub> > 3.0
Non-hazardous components		No data available

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#### ults of PBT and vPvB assessment

Chemical	Results
Acrylic copolymer	The substance is not PBT / vPvB.
Dec-1-ene, dimers, hydrogenated	Not expected to be PBT / vPvB.
Distillate (petroleum), hydrotreated middle	The substance is not PBT / vPvB.
Non-hazardous components	These substances are not PBT / vPvB.

### 12.6 Other adverse effects

Chemical	Results
Acrylic copolymer	No other adverse effects are known.
Dec-1-ene, dimers, hydrogenated	Less than 53.5% degradation in water after 28 days.
Distillate (petroleum), hydrotreated middle	Spills may hinder oxygen transfer in aquatic environments.
Non-hazardous components	No adverse effects are expected.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

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 U.S. EPA (40 CFR Subpart C) criteria for being toxic, corrosive, ignitable, or reactive. This material could also become hazardous waste if it is mixed with or meets a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

## SECTION 14. TRANSPORTATION INFORMATION

### United States Department of Transportation (DOT)

Not regulated

### Canada Transport - Transportation of Dangerous Goods (TDG)

UN Number:

UN Proper shipping name:

Transport hazard class:



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Packing group:

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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III

## International Air Transport Association (IATA)

Not regulated

## International Carriage of Dangerous Goods by Inland Waterways (AND)

UN Number:

UN Proper shipping name:

Transport hazard class:

Packing group:

MARPOL73/78 and IBC Code:

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

9

III

P

## International Carriage of Dangerous Goods by Rail (RID)

UN Number:

UN Proper shipping name:

Transport hazard class:

Packing group:

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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III

## International Carriage of Dangerous Goods by Road (ADR)

UN Number:

UN Proper shipping name:

Transport hazard class:

Packing group:

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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III

## International Civil Aviation Organization (ICAO)

Not regulated

## International Maritime Dangerous Goods Code (IMDG Code)

UN Number:

UN Proper shipping name:

Transport hazard class:

Packing group:

MARPOL73/78 and IBC Code:

Emergency schedules (EmS):

Special provisions:

UN3082



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III

P

F-A, S-F

274; 335; 969

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Australia Inventory (AICS)

All the ingredients are listed.

#### California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### Canadian Domestic Substances List/Non-Domestic Substances List (DSL/NDSL)

All the ingredients are listed.

#### China Inventory of Existing Chemical Substances (IECSC)

All the ingredients are listed.

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

#### International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

#### Japan Existing and New Chemical Substances (ENCS)

All the ingredients are listed.

#### Korean Existing and Evaluated Chemical Substances (KECL)

All the ingredients are listed.

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All the ingredients are listed.

#### 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 Section 313 (40 CFR Part 372)

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

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

Hazardous categories for this product are:

Acute =	Chronic =	Fire =	Pressure =	Reactive =
Yes	No	No	No	No

#### United States Toxic Substances Control Act (TSCA)

All the ingredients are listed.



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### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been conducted.

## SECTION 16. OTHER INFORMATION

Safety Data Sheet Creation Date:

27 December 2013

Safety Data Sheet Revision Date:

23 April 2018

Revision Number:

6.0

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### Toxicological References

"Dec-1-ene, dimers, hydrogenated." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 25 Apr. 2017.

"Distillate (petroleum), hydrotreated middle." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 17 Apr. 2017.

*Globally Harmonized System of Classification and Labelling of Chemicals: (GHS)*. 6th ed. New York: United Nations, 2015. Print.

### Definitions

ACGIH

Association Advancing Occupational and Environmental Health

AFS 2011:18

Swedish Work Environment Authority's provisions and general recommendations on occupational exposure limit values

Aquatic Acute 2

Aquatic toxicity, acute hazards, category 2

Aquatic Chronic 2

Aquatic toxicity, chronic hazards, category 2

Asp. Tox. 1

Aspiration hazard, category 1

Asp. Tox. 2

Aspiration hazard, category 2

Aspiration hazard, category 1

Hydrocarbons with kinematic viscosity  $\leq 20.5$  mm<sup>2</sup>/s are classified by OSHA as an aspiration hazard.

CEC L-33-T-82

Coordinating European Council Test Method for Biodegradability (1982 revision)

EC number

European Community number

EC<sub>50</sub>

Concentration that effects 50% of the test population.

EPA OTS 797.1050

United States Environmental Protection Agency Test Guideline 797.1050: Algal Acute Toxicity Test

EU

European Union

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation

H332



# SAFETY DATA SHEET

**RADCOLUBE® RHP5606**

MIL-PRF-5606J HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE, AND ORDNANCE

Issue Date: 27 December

Revision 2013

Date: 23 April 2018

Revision: 5.0

Harmful if inhaled.

HMIS  
Hazardous Materials Identification System  
IARC  
International Agency for Research on Cancer  
LC<sub>50</sub>  
Lethal concentration that causes 50% death in test population.  
LD<sub>50</sub>  
Lethal dose that causes 50% death in test population.  
M-Factor  
Multiplying factor for substances that are toxic to aquatic environment.  
NFPA  
National Fire Protection Association  
NIOSH  
National Institute for Occupational Safety and Health  
NOELR  
No observable effect loading rate  
NOEL  
No observable effect level  
NOEC  
No observable effect concentration  
OECD 201  
OECD Guideline 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test  
OECD 202  
OECD Guideline 202: Daphnia sp. Acute Immobilisation Test  
OECD 203  
OECD Guideline 203: Fish, Acute Toxicity Test  
OECD 211  
OECD Guideline 211: Daphnia magna Reproduction Test  
OECD 222  
OECD Guideline 222: Earthworm Reproduction Test (*Eisenia fetida*/*Eisenia andrei*)  
OECD 403  
OECD Guideline 403: Acute Inhalation Toxicity  
OECD 404  
OECD Guideline 404: Acute Dermal Irritation/Corrosion  
OECD 406  
OECD Guideline 406: Skin Sensitization Test  
OECD 471  
OECD Guideline 407: Bacterial Reverse Mutation Test  
OECD 474  
OECD Guideline 474: Mammalian Erythrocyte Micronucleus Test  
OSHA  
United States Department of Labor Occupational Safety and Health Administration  
PBT  
Persistence Bioaccumulation and Toxicity  
QSAR model  
Quantitative structure-activity relationship model  
Skin Irrit. 2  
*See Skin irritation, Category 2 for definition.*  
Skin irritation, Category 2  
Inflammation, alopecia (limited area), hyperkeratosis, hyperplasia, and scaling that fully reverses after 14 day in animal studies.  
UN  
United Nations  
US  
United States of America  
vPvB  
Very persistent and very bioaccumulative