



RADCOLUBE® 6081

SAFETY DATA SHEET

MIL-PRF-6081E GRADE 1010 LUBRICATING OIL, JET ENGINE

Issue Date: 14 July 2014

Revision Date: 27 July 2022

Revision Number: 6.0

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

1.1 Product Identifier

Product Name:	RADCOLUBE® 6081		
Specifications:	MIL-PRF-6081E GRADE 1010		
Qualification Number (Qualification Date):	95B (14 July 2014)		
	102B (13 May 2020)		
	103B (13 May 2020)		
Qualification Date:			
ISO 9001:2015 Certification Number:	C2018-00035		
NATO Code:	0-133		
National Stock Numbers (NSN):	9150-00-273-2388	Quart	
	9150-00-273-8807	Gallon	
	9150-00-231-6676	55 Gallon Drum	
	9150-00-985-7031	Bulk	

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

This product, MIL-PRF-6081 Grade 1010 (NATO Code Number O-133) is intended for the use in specific models of military aircraft jet engines.

1.3 Details of the supplier of the safety data sheet

Headquarters and Manufacturing Facility
Radco Industries, Inc.
700 Kingsland Drive
Batavia, IL 60510
CAGE Code 6ZS16

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:

Acute Toxicity	Category 4: Inhalation
Aspiration hazard	Category 1

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.

2.1 Label elements

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Hazard pictograms:



Signal word: DANGER

Hazard statements

H304:	May be fatal if swallowed and enters airways.
H332:	Harmful if inhaled.

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.
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 IDHealth: 1
Flammability: 1
Reactivity: 0**HMIS Hazard ID**Health: 1
Flammability: 1
Reactivity: 0**SECTION 3. Composition/information on ingredients****3.1 Substances**1-Decene, homopolymer, hydrogenatedIndex number: Not determined
CAS number: 68037-01-4
EC number: 500-183-1
REACH number: 01-2119486452-34
Synonyms: Polyalphaolefin; PAO

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Distillates (petroleum), hydrotreated light naphthenic

Index number: 649-466-00-2
 CAS number: 64742-53-6
 EC number: 265-156-6
 REACH number: 01-2119480375-34
 Synonyms: Hydrotreated light naphthenic distillate

Paraffin oils (petroleum), catalytic dewaxed light

Index number: Not available
 CAS number: 64742-71-8
 EC number: 265-176-5
 REACH number: 01-2119485040-48
 Synonyms: --

Proprietary components

Index number: Not determined
 CAS number: Trade secret
 EC number: Trade secret
 REACH number: Not determined
 Synonyms: Trade secret

3.2 Mixtures

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	40 – 80%	Asp. Tox. 1 – H304	0
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8	265-176-5	0 – 40%	Acute Tox. 4 – H332	0
1-Decene, homopolymer, hydrogenated	68037-01-4	500-183-1	Trade secret	Asp. Tox. 1 – H304	0
Proprietary components	Trade secret	Trade secret	Trade secret	Not classified	0

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

Indicative occupational exposure limit values

Component	Specific Concentration limits
1-Decene, homopolymer, hydrogenated	See SECTION 8 for exposure limits.
Distillates (petroleum), hydrotreated light naphthenic	See SECTION 8 for exposure limits.
Paraffin oils (petroleum), catalytic dewaxed light	See SECTION 8 for exposure limits.
Proprietary 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.

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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.

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.

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.

This hydraulic fluid will not be used for aircraft systems, aircraft ground support equipment, or the preservation of aircraft components.

7.3 Specific end use(s)

For jet engines requiring MIL-PRF-6081E GRADE 1010 (NATO CODE O-133) lubricating oil.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Component	Occupational exposure limits
1-Decene, homopolymer, hydrogenated	None established
Distillates (petroleum), hydrotreated light naphthenic	ACGIH TLV: (United States, 4/2014) TWA = 5 mg/m ³ 8 hours (Inhalable fraction) NIOSH PEL: (United States, 10/2013) TWA = 5 mg/m ³ 10 hours (Mist) NIOSH PEL: (United States, 10/2013) STEL = 10 mg/m ³ 15 minutes (Mist) OSHA PEL: (United States, 2/2013) TWA = 5 mg/m ³ 8 hours (Mist)
Paraffin oils (petroleum), catalytic dewaxed light	ACGIH TLV: (United States, 4/2014) TWA = 5 mg/m ³ 8 hours (Inhalable fraction) NIOSH PEL: (United States, 10/2013) TWA = 5 mg/m ³ 10 hours (Mist) NIOSH PEL: (United States, 10/2013) STEL = 10 mg/m ³ 15 minutes (Mist) OSHA PEL: (United States, 2/2013) TWA = 5 mg/m ³ 8 hours (Mist)
Proprietary components	None established

Biological exposure limits

None established for any of the disclosed components.

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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**9.1 Information on basic physical and chemical properties**

Appearance:	Red, clear liquid
Odor:	Odorless
Odor threshold:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Evaporation Rate (ASTM D972):	Not determined
Explosive properties:	Not determined
Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not determined
Upper flammability limit:	Not determined
Flash point Cleveland Open Cup (ASTM D92):	> 157°C (314.6°F)
Flash point Pensky-Martens Closed Cup (ASTM D93):	Not determined
Initial boiling point and boiling range:	No available
Melting point/freezing point:	< -69°C (-92.2°F)
Oxidizing properties:	Non-oxidizing
Partition coefficient (n-octanol/water), Log P _{ow} :	Not determined
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.85 – 0.87
Solubility in water:	Insoluble
Vapor density:	Not determined
Vapor pressure:	Not determined
Viscosity (ASTM D445):	10.0 – 10.6 mm ² /s at 37.8°C (100°F) 1700 – 2600 mm ² /s at -40°C (-40°F)

9.2 Other information

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No further information is available.

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.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity	Method	Species	Result
1-Decene, homopolymer, hydrogenated	Dermal	Rat	LD ₅₀ > 2000 mg/kg
	Inhalation	Rat	LC ₅₀ = 5.0 mg/L after 1 hour
	Oral	Rat	LD ₅₀ > 2000 mg/kg
Distillates (petroleum), hydrotreated light naphthenic	Dermal	Rabbit	LD ₅₀ > 5000 mg/kg
	Inhalation	Rat	LC ₅₀ > 5.53 mg/L after 4 hours
	Oral	Rat	LD ₅₀ > 5000 mg/kg (body weight)
Paraffin oils (petroleum), catalytic dewaxed light	Dermal	Rabbit	LD ₅₀ > 5000 mg/kg bodyweight
	Inhalation	Rat	LC ₅₀ = 2.18 mg/L air
	Oral	Rat	LD ₅₀ > 5000 mg/kg bodyweight
Proprietary components	--	--	No data available

Aspiration hazard	Test Method	Species	Result
1-Decene, homopolymer, hydrogenated	OECD 403	Rat	Aspiration hazard, Category 1
Distillates (petroleum), hydrotreated light naphthenic	--	--	Aspiration hazard, Category 1
Paraffin oils (petroleum), catalytic dewaxed light	OECD 403	Rat	Acute Toxicity, Category 4: Inhalation
Proprietary components	--	--	Not classified

Carcinogenicity	Results
1-Decene, homopolymer, hydrogenated	Not classified as carcinogen by IARC, NTP and OSHA.
Distillates (petroleum), hydrotreated light naphthenic	Not classified as carcinogen by IARC, NTP and OSHA.
Paraffin oils (petroleum), catalytic dewaxed light	Not classified as carcinogen by IARC, NTP and OSHA.
Proprietary components	Not classified as carcinogens by IARC, NTP and OSHA.

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Eye damage / irritation	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 405	Rabbit	Not irritating
Distillates (petroleum), hydrotreated light naphthenic	OECD 405	Rabbit	Not irritating
Paraffin oils (petroleum), catalytic dewaxed light	OECD 405	Rabbit	Not irritating
Proprietary components	--	--	Not classified

Germ cell mutagenicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 471	<i>S. typhimurium</i>	Not mutagenic
Distillates (petroleum), hydrotreated light naphthenic	OECD 471	<i>S. typhimurium</i>	Not mutagenic
	OECD 474	Mouse	Not mutagenic
Paraffin oils (petroleum), catalytic dewaxed light	OECD 471	<i>S. typhimurium</i>	Not mutagenic
	OECD 474	Mouse	Not mutagenic
Proprietary components	--	--	Not classified

Reproductive toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 415	Rat	No reproductive harm
Distillates (petroleum), hydrotreated light naphthenic	OECD 421	Rat (oral)	NOAEL ≥ 1000 mg/kg/day
Paraffin oils (petroleum), catalytic dewaxed light	OECD 414	Rat (dermal)	NOAEL = 30 mg/kg bodyweight/day
	OECD 421	Rat (oral)	NOAEL ≥ 1000 mg/kg/day
Proprietary components	--	--	Not classified

Respiratory sensitization

No data available

Skin sensitization	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 406	Guinea pig	Not sensitizing
Distillates (petroleum), hydrotreated light naphthenic	OECD 406	Guinea pig	Not sensitizing
Paraffin oils (petroleum), catalytic dewaxed light	OECD 406	Guinea pig	Not sensitizing
Proprietary components	--	--	Not classified

Skin corrosion/irritation	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 404	Rabbit	Not irritating
Distillates (petroleum), hydrotreated light naphthenic	OECD 404	Rabbit	Not irritating
Paraffin oils (petroleum), catalytic dewaxed light	OECD 404	Rabbit	Not irritating
Proprietary components	--	--	Not classified

Specific target organ toxicity (STOT)-repeated exposure

No data available

Specific target organ toxicity (STOT)-single exposure

No data available

11.2 Other information

See SECTION 16 for toxicity references.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Aquatic Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 203	<i>D. magna</i>	NOEL = 125 mg/L after 21 days
	OECD 211	<i>O. mykiss</i>	LL ₅₀ > 1000g/L after 96 hours
	DIN 38412-8	<i>P. putida</i>	EC ₅₀ > 10g/L after 16 hours

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Distillates (petroleum), hydrotreated light naphthenic	OECD 201 OECD 202 OECD 203 OECD 211 QSAR	<i>Alga</i> <i>Daphnia sp.</i> <i>P. promelas</i> <i>D. magna</i> <i>O. mykiss</i>	NOEL ≥ 100 mg/L after 72 hours NOEL > 10,000 mg/L after 48 hours LL ₅₀ > 100 mg/L after 96 hours NOEL = 10 mg/L after 21 days NOELR ≥ 1000 mg/L after 14 days
Paraffin oils (petroleum), catalytic dewaxed light	OECD 201 OECD 202 OECD 203 OECD 211	<i>P. subcapitata</i> <i>D. magna</i> <i>P. promelas</i> <i>D. magna</i>	NOEL ≥ 100 mg/L after 72-hours EL ₅₀ ≥ 10,000 mg/L after 48-hours LL ₅₀ > 100 mg/L NOEL = 10 mg/L after 21-days
Proprietary components	--	--	No data available

Terrestrial Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 222	<i>Earthworm</i>	LC50 > 1000 mg/kg after 56 days
Distillates (petroleum), hydrotreated light naphthenic	--	--	No data available
Paraffin oils (petroleum), catalytic dewaxed light	--	--	No data available
Proprietary components	--	--	No data available

12.2 Persistence and degradability

Biodegradation	Test Method	Results
1-Decene, homopolymer, hydrogenated	OECD 301B	Not readily biodegradable: 15% after 28 days in water
Distillates (petroleum), hydrotreated light naphthenic	OECD 301F	Inherently biodegradable: 77% after 28 days in water
Paraffin oils (petroleum), catalytic dewaxed light	<i>Read across</i>	Not readily biodegradable: 2 – 4% after 28 days in water
Proprietary components	--	No data available

12.3 Bioaccumulative potential**Bioconcentration Factor (BCF)**

No BCF is data available.

Partition Coefficient n-octanol / water (Log K _{ow})	Results
1-Decene, homopolymer, hydrogenated	10.09
Distillates (petroleum), hydrotreated light naphthenic	No data available
Paraffin oils (petroleum), catalytic dewaxed light	1.99 – 18.02
Proprietary components	No data available

12.4 Mobility in soil

No data is available.

12.5 Results of PBT and vPvB assessment

Chemical	Results
1-Decene, homopolymer, hydrogenated	The substance is not PBT / vPvB.
Distillates (petroleum), hydrotreated light naphthenic	The substance is not PBT / vPvB.
Proprietary components	These substances are not PBT / vPvB.

12.6 Other adverse effects

No additional data is available.

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

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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)

Not regulated

International Air Transport Association (IATA)

Not regulated

International Carriage of Dangerous Goods by Inland Waterways (AND)

Not regulated

International Carriage of Dangerous Goods by Rail (RID)

Not regulated

International Carriage of Dangerous Goods by Road (ADR)

Not regulated

International Civil Aviation Organization (ICAO)

Not regulated

International Maritime Dangerous Goods Code (IMDG Code)

Not regulated

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)

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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 = No Chronic = No Fire = No Pressure = No Reactive = No

United States Toxic Substances Control Act (TSCA)

All the ingredients are listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been conducted.

SECTION 16. OTHER INFORMATION

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RADCOLUBE® is a registered trademark of Radco Industries, Inc.

Toxicological References

"1-Decene, homopolymer, hydrogenated." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 17 Apr. 2017.

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

"Paraffin oils (petroleum), catalytic dewaxed light." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 9 Mar. 2020.

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