

# RADCOLUBE® 2075 (2075-T-H)

Safety Data Sheet

### MIL-PRF-17672E ISO VISCOSITY GRADE 32, MILITARY SYMBOL 2075-T-H, GRADE CODE A Hydraulic Fluid, Petroleum,

Inhibited

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Issue date: 8/22/2015	Revision date: 1/19/2024 Supersedes: 12/15/2023 Version: 10.0 rding to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
SECTION 1: Identification	
1.1. Identification	
Trade name	RADCOLUBE <sup>®</sup> 2075 (2075-T-H)
Specification:	MIL-PRF-17672E ISO Viscosity Grade 32, Military Symbol 2075-T-H, Grade Code A
	Hydraulic Fluid, Petroleum, Inhibited
Qualification Number (Date):	NAVSEA Letter Ser 05S/2016-001 (8 January 2016)
	NAVSEA Letter Ser 05S/2021-289 (13 August 2021)
Military Symbol:	2075-Т-Н
National Stock Number(s) (NSN):	9150-00-985-7232 5 Gallon Pail
	9150-00-985-7233 55 Gallon Drum
1.2. Recommended use and res	rictions on use
Use of the substance/mixture:	This product is a military specification inhibited petroleum based hydraulic fluid containing anticorrosion and anti-oxidation additives for use in hydraulic systems and in other applications where a high-grade lubricating oil having anticorrosion and anti- oxidation properties is required. This fluid should not be used in systems where a fire- resistant fluid is specified.
Use of the substance/mixture:	Hydraulic fluids and additives
Recommended use:	Hydraulic fluids
1.3. Supplier	
Manufacture	

Manufacturer

Radco Industries Inc. CAGE Code 6ZS16 700 Kingsland Drive Batavia, Illinois 60510 United States T (630) 232-7966 www.radcoind.com

### **1.4. Emergency telephone number**

Emergency number:

For Chemical Emergency Call CHEMTREC 24hr/day 7days/week Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

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### SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture		
GHS US classification		
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Full text of H statements : see section 16		

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US):

Signal word (GHS US):	Warning
Hazard statements (GHS US):	H317 - May cause an allergic skin reaction
	H332 - Harmful if inhaled
Precautionary statements (GHS US):	P261 - Avoid breathing fume, mist, spray, vapors.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing must not be allowed out of the workplace.
	P280 - Wear protective clothing, eye protection, face protection.
	P302+P352 - If on skin: Wash with plenty of soap and water.
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P312 - Call a doctor if you feel unwell.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
	P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	40 - 100	Not classified
(Base Oil)			
Distillates (petroleum), hydrotreated light paraffinic	CAS-No.: 64742-55-8	0 - 60	Acute Tox. 4
(Base Oil)			(Inhalation:dust,mist), H332

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Name	Product identifier	%	<b>GHS US classification</b>
N-phenyl-1-naphthalamine	CAS-No.: 90-30-2	Trade Secert	Acute Tox. 4 (Oral), H302
			Skin Sens. 1, H317
			STOT RE 2, H373
			Aquatic Chronic 1, H410
Trade Secret 1*	CAS-No.: Trade Secret	Trade Secret	Not classified

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general:	Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a poison
	center/doctor/physician if you feel unwell.
First-aid measures after skin contact:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash
	occurs: Get medical advice/attention.
First-aid measures after eye contact:	Rinse eyes with water as a precaution.
First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact: May cause an allergic skin reaction.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case Toxic fumes may be released. of fire:

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures:

Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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#### 6.1.2. For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up:	Take up liquid spill into absorbent material.
Other information:	Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling:	Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures:	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions:

Store in a well-ventilated place. Keep cool.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

RADCOLUBE® 2075 (2075-T-H)		
USA - OSHA - Occupational Exposure Limits		
Local name	Oil mist, mineral	
OSHA PEL TWA	5 mg/m <sup>3</sup>	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)	
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference	ACGIH 2023	

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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
USA - ACGIH - Occupational Expos	sure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)	
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference	ACGIH 2023	
Trade Secret 1		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	3 mg/m <sup>3</sup> (Inhalable fraction)	
N-phenyl-1-naphthalamine (90-30-2)		
No additional information available		

### 8.2. Appropriate engineering controls

Appropriate engineering controls:	Ensure good ventilation of the work station.
Environmental exposure controls:	Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

and protection:
rotective gloves
ye protection:
afety glasses
kin and body protection:
/ear suitable protective clothing
espiratory protection:
n case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid.

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Color:	Light vollow
	Light yellow
Odor:	slight
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	< -48 °C (ASTM D97 Pour point)
Boiling point:	No data available
Flash point:	220 °C (ASTM D92)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	< 0.1 hPa at 20°C
Relative vapor density at 20°C:	No data available
Relative density:	0.8789 at 15.6°C (Water = 1)
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	29.5 mm²/s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### **11.1.** Information on toxicological effects

Not classified		
Not classified		
Inhalation:dust,mist: Harmful if inhaled.		
Not classified		
Not classified		
Not classified		
29.5 mm <sup>2</sup> /s at 40°C (104°F)		
May cause an allergic skin reaction.		
Not classified		
Not classified		
Not classified		
RADCOLUBE® 2075 (2075-T-H)		
4.417 mg/l/4h		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
> 5000 mg/kg body weight (OECD 401 method) (OECD 420 method)		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
> 5000 mg/kg body weight (OECD 420 method)		
> 2000 mg/kg IUCLID reference substance		
2.18 mg/l/4h		
> 2000 mg/kg (Literature data)		
N-phenyl-1-naphthalamine (90-30-2)		
1625 mg/kg body weight (male)		
> 5000 mg/kg body weight (male)		

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Serious eye damage/irritation:	Not classified	
Distillates (petroleum), hydrotreate	d light paraffinic (64742-55-8)	
Serious eye damage/irritation:	Not classified	
Trade Secret 1		
Serious eye damage/irritation:	Not classified	
N-phenyl-1-naphthalamine (90-30-2	)	
Serious eye damage/irritation:	Not classified	
Distillates (petroleum), hydrotreate	d heavy paraffinic (64742-54-7)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.	
Distillates (petroleum), hydrotreate	d light paraffinic (64742-55-8)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.	
Trade Secret 1		
Respiratory or skin sensitization:	May cause an allergic skin reaction.	
N-phenyl-1-naphthalamine (90-30-2	)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.	
Distillates (petroleum), hydrotreate	d heavy paraffinic (64742-54-7)	
Germ cell mutagenicity:	Not classified	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
Germ cell mutagenicity:	Not classified	
Trade Secret 1		
Germ cell mutagenicity:	Not classified	
N-phenyl-1-naphthalamine (90-30-2)		
Germ cell mutagenicity:	Not classified	
N-phenyl-1-naphthalamine (90-30-2)		
NOAEL (animal/male, F0/P):	< 40 mg/kg body weight Test method EU B.35	
NOAEL (animal/female, F0/P):	< 46 mg/kg body weight Test method EU B.35	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)	

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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)	
NOAEC (inhalation,rat,dust/mist/fume,90 days):	> 0.98 mg/l Air (OECD 412 method)	
N-phenyl-1-naphthalamine (90-30-2)		
LOAEL (oral,rat,90 days):	20 mg/kg body weight (OECD 407 method)	
NOAEL (oral,rat,90 days):	80 mg/kg body weight (OECD 407 method)	
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.	

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
LC50 - Fish [1]:	> 5000 mg/I IUCLID reference substance	
EC50 - Crustacea [1]: > 1000 mg/l (IUCLID reference substance)		
N-phenyl-1-naphthalamine (90-30-2)		
LC50 - Fish [1]:	0.44 mg/l (Species: Oncorhynchus mykiss (Rainbow trout))	
EC50 - Crustacea [1]:	[1]: 0.3 mg/l EC50 48h - Daphnia magna [mg/l]	
ErC50 algae:	C50 algae: 0.93 mg/l (Species: Pseudokirchneriella subcapitata; 96 Hours, Freshwater)	
LOEC (chronic):	0.1 mg/l Species: Daphnia magna (Water flea); 21 days	

### **12.2.** Persistence and degradability

Trade Secret 1		
Persistence and degradability:	Not readily biodegradable in water.	
N-phenyl-1-naphthalamine (90-30-2)		

### 12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow):	3.9 – 6 IUCLID reference substance
Trade Secret 1	
Bioaccumulative potential:	No bioaccumulation data available.

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N-phenyl-1-naphthalamine (90-30-2)	
BCF - Fish [1]:	427 – 2730 (OECD 305 method)
Partition coefficient n-octanol/water (Log Pow):	4.28 Experimental data
Bioaccumulative potential:	Potential for bioaccumulation (500 $\leq$ BCF $\leq$ 5000).

### 12.4. Mobility in soil

N-phenyl-1-naphthalamine (90-30-2)	
Surface tension:	No data available
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	3.227 (QSAR Source: PCKOCWIN v2.0)
Ecology - soil:	Low potential for mobility in soil.

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA / ICAO / ADN / RID / ADG

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT):	Not applicable
Proper Shipping Name (TDG):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable

### 14.3. Transport hazard class(es)

DOT	
Transport hazard class(es) (DOT):	Not applicable

### TDG

Transport hazard class(es) (TDG)	Not applicable
	i iter applicable

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#### IMDG

Transport hazard class(es) (IMDG): Not applicable

### ΙΑΤΑ

Transport hazard class(es) (IATA):

### 14.4. Packing group

Packing group (DOT):	Not applicable
Packing group (TDG):	Not applicable
Packing group (IMDG):	Not applicable
Packing group (IATA):	Not applicable

### 14.5. Environmental hazards

Other information:

No supplementary information available.

### 14.6. Special precautions for user

### DOT

No data available

### TDG

No data available

### IMDG

No data available

### ΙΑΤΑ

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Present	Active	
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Present	Active	
Trade Secret 1		Present	Active	XU
N-phenyl-1-naphthalamine	90-30-2	Present	Active	

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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### **15.2.** International regulations

#### CANADA

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Listed on the Canadian DSL (Domestic Substances List)

### Trade Secret 1

Listed on the Canadian DSL (Domestic Substances List)

### N-phenyl-1-naphthalamine (90-30-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Trade Secret 1

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### N-phenyl-1-naphthalamine (90-30-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/19/2024

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Full text of H-phrases	
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

NFPA health 1 - Materials that, under emergency conditions, can cause significant irritation.
hazard
NFPA fire hazard 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating	
Health	1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids
	having a flash point above 200 F. (Class IIIB)
Physical	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water,
	polymerize, decompose, condense, or self-react. Non-Explosives.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular process or for any particular purpose. Such information stated is to the best of Radco's knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability, or completeness, purchasers, users and distributors are not relying on any promise, representation, or recommendation made by Radco, and Radco does not accept liability for any loss or damage that may occur from the use of this information. Final determination of suitability of any material is the sole responsibility of the user. All material should be used with caution to guard against unknown hazards. Although certain hazards are described herein, Radco does not guarantee that these are the only hazards that exist.

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