



RADCOLUBE® 2110 (2110-T-H)

Safety Data Sheet

MIL-PRF-17672E ISO VISCOSITY GRADE 46, MILITARY SYMBOL 2110-T-H, GRADE CODE B Hydraulic Fluid, Petroleum, Inhibited

Issue date: 8/25/2014

Revision date: 1/25/2024

Supersedes: 1/19/2024

Version: 9.1

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Trade name	RADCOLUBE® 2110 (2110-T-H)
Specification:	MIL-PRF-17672E ISO Viscosity Grade 46, Military Symbol 2110-T-H, Grade Code B Hydraulic Fluid, Petroleum, Inhibited
Qualification Number (Date):	NAVSEA Letter Ser 05S/2015-250 (22 July 2015) NAVSEA Letter Ser 05S/2021-289 (13 August 2021)
Military Symbol:	2110-T-H
NATO Code:	H-573
National Stock Number(s) (NSN):	9150-00-753-4799 Oblong Gallon 9150-00-985-7234 5 Gallon Pail 9150-00-582-5480 55 Gallon Drum

1.2. Recommended use and restrictions on use

Use of the substance/mixture:	This specification covers petroleum base hydraulic fluids for use in hydraulic systems and in other applications where a high grade hydraulic fluid having anti-corrosion and anti-oxidation properties are required. This hydraulic fluid is not an extreme pressure (EP) or anti-wear (AW) fluid. This hydraulic fluid should not be used in systems where a fire-resistant fluid is required.
Use of the substance/mixture:	Hydraulic fluids and additives
Recommended use:	Hydraulic fluids

1.3. Supplier

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 eye protection, protective gloves.

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), solvent-dewaxed heavy paraffinic (Base Oil)	CAS-No.: 64742-65-0	40 – 75	Acute Tox. 4 (Inhalation:dust,mist), H332
Distillates (petroleum), hydrotreated light paraffinic (Base Oil)	CAS-No.: 64742-55-8	0 – 40	Acute Tox. 4 (Inhalation:dust,mist), H332
Distillates (petroleum), hydrotreated heavy paraffinic (Base Oil)	CAS-No.: 64742-54-7	0 – 40	Not classified

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1-Naphthalenamine, N-phenyl-	CAS-No.: 90-30-2	Trade Secret	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 inhalation:	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact:	May cause an allergic skin reaction.
Symptoms/effects after eye contact:	None under normal conditions.
Symptoms/effects after ingestion:	None under normal conditions.

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.
Unsuitable extinguishing media:	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard:	No fire hazard.
Explosion hazard:	No direct explosion hazard.
Hazardous decomposition products in case of fire:	Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions:	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material-damage.

6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.

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

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".

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

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

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.

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

Technical measures: Keep in a cool, well-ventilated place away from heat.

Storage conditions: Keep cool. Protect from sunlight.

Packaging materials: Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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RADCOLUBE® 2110 (2110-T-H)	
No additional information available	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³ (8 Hours Inhalable fraction)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	5 mg/m ³ 8 Hours
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	5 mg/m ³ (10 Hours)
NIOSH REL STEL	10 mg/m ³ (15 minutes)
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³ 8 Hours. Form: inhalable
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	5 mg/m ³ 8 Hours
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	5 mg/m ³ 15 Hours. Form: mist
NIOSH REL STEL	10 mg/m ³ 15 minutes. Form: mist
Trade Secret 1	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m ³ (Inhalable fraction)
1-Naphthalenamine, N-phenyl- (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.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
[In 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.
Color:	Light yellow
Odor:	slight Petroleum-like odor
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -23 °C (ASTM D97 Pour point)
Boiling point:	No data available
Flash point:	224 °C (ASTM D92 Flash point)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	No data available
Relative vapor density at 20°C:	No data available

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Relative density:	0.87 at 15.6°C (Water = 1)
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	41.4 – 50.6 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	Not classified as explosive according to EC criteria, but may present risks in the event of a fire.
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.

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

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Inhalation:dust,mist: Harmful if inhaled.
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified

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Aspiration hazard:	Not classified
Viscosity, kinematic:	41.4 – 50.6 mm ² /s at 40°C (104°F)
Symptoms/effects after inhalation:	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact:	May cause an allergic skin reaction.
Symptoms/effects after eye contact:	None under normal conditions.
Symptoms/effects after ingestion:	None under normal conditions.
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

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ATE US (dust, mist):	2.199 mg/l/4h
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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit:	> 5000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	2.18 (1.8 – 2.55) mg/l/4h (OECD 403 method)
ATE US (vapors):	2.18 mg/l/4h
ATE US (dust, mist):	2.18 mg/l/4h

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

LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
LD50 dermal rabbit:	> 2000 mg/kg IUCLID reference substance
ATE US (dust, mist):	2.18 mg/l/4h

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

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method) (OECD 420 method)
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Trade Secret 1

LD50 oral rat:	> 2000 mg/kg (Literature data)
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1-Naphthalenamine, N-phenyl- (90-30-2)

LD50 oral rat:	1625 mg/kg body weight (male)
LD50 dermal rabbit:	> 5000 mg/kg body weight (male)
ATE US (oral):	1625 mg/kg body weight

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Serious eye damage/irritation:	Not classified
Trade Secret 1	
Serious eye damage/irritation:	Not classified
1-Naphthalenamine, N-phenyl- (90-30-2)	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Trade Secret 1	
Respiratory or skin sensitization:	May cause an allergic skin reaction.
1-Naphthalenamine, N-phenyl- (90-30-2)	
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Germ cell mutagenicity:	Not classified
Trade Secret 1	
Germ cell mutagenicity:	Not classified
1-Naphthalenamine, N-phenyl- (90-30-2)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
NOAEL (animal/male, F0/P):	≥ 1000 mg/kg body weight (OECD 421 method)

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
NOAEL (animal/female, F0/P):	≥ 1000 mg/kg body weight (OECD 421 method)
NOAEL (animal/male, F1):	≥ 1000 mg/kg body weight (OECD 421 method)
NOAEL (animal/female, F1):	≥ 1000 mg/kg body weight (OECD 421 method)
1-Naphthalenamine, N-phenyl- (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), solvent-dewaxed heavy paraffinic (64742-65-0)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight (OECD 410 method)
NOAEC (inhalation,rat,dust/mist/fume,90 days):	> 0.98 mg/l Air (OECD 412 method)
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)
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
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 Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
1-Naphthalenamine, N-phenyl- (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/l IUCLID reference substance
EC50 - Crustacea [1]:	> 1000 mg/l (IUCLID reference substance)

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1-Naphthalenamine, N-phenyl- (90-30-2)

LC50 - Fish [1]:	0.44 mg/l (Species: Oncorhynchus mykiss (Rainbow trout))
EC50 - Crustacea [1]:	0.3 mg/l EC50 48h - Daphnia magna [mg/l]
ErC50 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**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Persistence and degradability:	Biodegradability in water: no data available.
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Trade Secret 1

Persistence and degradability:	Not readily biodegradable in water.
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1-Naphthalenamine, N-phenyl- (90-30-2)

Persistence and degradability:	Not readily biodegradable in water.
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12.3. Bioaccumulative potential**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Partition coefficient n-octanol/water (Log Pow):	2 – 6
Bioaccumulative potential:	No bioaccumulation data available.

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

Partition coefficient n-octanol/water (Log Pow):	3.9 – 6 IUCLID reference substance
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Trade Secret 1

Bioaccumulative potential:	No bioaccumulation data available.
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1-Naphthalenamine, N-phenyl- (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 ($500 \leq \text{BCF} \leq 5000$).

12.4. Mobility in soil**1-Naphthalenamine, N-phenyl- (90-30-2)**

Surface tension:	No data available
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	3.227 (QSAR Source: PCKOCWIN v2.0)

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Ecology - soil:	Low potential for mobility in soil.
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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation:	Disposal must be done according to official regulations.
Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations:	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations:	Disposal must be done according to official regulations.
Additional information:	Do not re-use empty containers.

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
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TDG

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

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

Transport hazard class(es) (IATA):	Not applicable
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14.4. Packing group

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

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15.2. International regulations

CANADA

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Trade Secret 1

Listed on the Canadian DSL (Domestic Substances List)

1-Naphthalenamine, N-phenyl- (90-30-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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)

1-Naphthalenamine, N-phenyl- (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

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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

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