

### **ROTOROIL F2**

Version Revision Date: SDS Number: Date of last issue: -

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#### **SECTION 1. IDENTIFICATION**

Product name: ROTOROIL F2

Product Use Description: Lubricant

Synonyms: Synthetic Lubricant Formulation

Company: <u>Manufacturer</u>

V-LIFE Specialty Lubricants Groot Egtenrayseweg 23

5928 PA Venlo Netherlands

Telephone: +31-77 396 0340

Supplier

Mattei Compressors

Inc.

9635 Liberty

Rd

Randallstown, MD 21133

United States of America (USA) Telephone: 410-521-7020

Emergency telephone

num- ber:

CHEMTREC

(24 hours) 800-424-9300

US: 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of

the Safety Data Sheet.

Prepared by <u>Product Safety</u>

<u>Department</u> (US) +1 866-430-2775

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : Reserved for industrial and professional use.

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#### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 29 CFR 1910.1200

Short-term (acute) aquatic

hazard

: Category 3

Long-term (chronic) aquatic : Category 3

hazard

**GHS** label elements

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

# **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Gas oils (petroleum), hydrodesulfurized	64742-79-6	>= 1 - < 5
Benzenamine, N-phenyl-, reaction products	68411-46-1	>= 1 - < 5
with 2,4,4-trimethylpentene		
N-1-naphthylaniline	90-30-2	>= 0.1 - < 1
triphenyl phosphate	115-86-6	>= 0.1 - < 1
diphenylamine	122-39-4	>= 0.1 - < 1

Actual concentration is withheld as a trade secret





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**SECTION 4. FIRST AID MEASURES** 

General advice Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled Move to fresh air in case of accidental inhalation of dust or

> fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact Take off contaminated clothing and shoes immediately.

> Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms

and effects, both acute and

delayed

None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Use extinguishing measures that are appropriate to local cir-Suitable extinguishing media :

cumstances and the surrounding environment.

Specific hazards during fire-

fighting

Burning produces noxious and toxic fumes.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.





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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Ensure adequate ventilation.

**Environmental precautions** Try to prevent the material from entering drains or water

courses.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated

place.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH
triphenyl phosphate	iphenyl phosphate 115-86-6 TWA		3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1





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		TWA	3 mg/m3	OSHA P0
		TWA	3 mg/m3	NIOSH REL
diphenylamine	122-39-4	TWA	10 mg/m3	ACGIH
		TWA	10 mg/m3	OSHA P0
		TWA	10 mg/m3	NIOSH REL

## Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected

protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : yellow

Odour : No data available

pH : No data available



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Pour point : -31 °F / -35 °C

Boiling point/boiling range : No data available

Flash point : 446 °F / 230 °C

Method: ASTM D92

Flammability (liquids) No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

0.956 g/cm3 (59 °F / 15 °C) Density

Method: ASTM D 1298

Solubility(ies)

Water solubility No data available

Partition coefficient: n-

octanol/water

: No data available

Viscosity

Viscosity, kinematic : 72.1 mm2/s (104 °F / 40 °C)

Method: ASTM D 445

9.7 mm2/s (212 °F / 100 °C) Method: ASTM D 445

Oxidizing potential : No information available.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability No decomposition if stored and applied as directed.

tions

Possibility of hazardous reac- : No decomposition if used as directed.





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Conditions to avoid : No data available

Contamination

Incompatible materials : Strong acids and strong bases

Strong oxidizing agents

Hazardous decomposition

products

Carbon oxides

Nitrogen oxides (NOx) Oxides of phosphorus

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### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

### **Product:**

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute toxicity estimate: > 200 mg/l

Exposure time: 4 h

Test atmosphere: vapour Method: Calculation method

Acute dermal toxicity : Remarks: Not classified due to lack of data.

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

#### Components:

# Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

N-1-naphthylaniline:

Acute oral toxicity : LD50 (Rat): 1,625 mg/kg





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Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

triphenyl phosphate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 200 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 7,900 mg/kg

diphenylamine:

Acute oral toxicity : LD50 (Rat): 1,165 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union,

the product is not considered as being a skin irritant.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

N-1-naphthylaniline:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

triphenyl phosphate:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

diphenylamine:

Species : Rabbit

Result : Mild skin irritation



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## Serious eye damage/eye irritation

**Product:** 

Remarks : According to the classification criteria of the European Union,

the product is not considered as being an eye irritant.

**Components:** 

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

N-1-naphthylaniline:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

triphenyl phosphate:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

diphenylamine:

Species : Rabbit Result : Eye irritation

Respiratory or skin sensitisation

**Product:** 

Remarks : May cause sensitisation of susceptible persons.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

N-1-naphthylaniline:

Test Type : Maximisation Test

Species : Guinea pig



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Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Test Type : Patch Test Species : Humans

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Test Type : Maximisation Test

Species : Guinea pig

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

triphenyl phosphate:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

GLP : yes

diphenylamine:

Species : Guinea pig

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Germ cell mutagenicity -

Assessment

: Not mutagenic in Ames Test

N-1-naphthylaniline:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chinese Hamster Ovary (CHO)

Metabolic activation: with and without metabolic activation

Result: negative



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Genotoxicity in vivo

Test Type: in vivo assay Species: Mouse (male)

Result: negative

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects., Tests on

bacterial or mammalian cell cultures did not show mutagenic

effects.

triphenyl phosphate:

Genotoxicity in vitro : Te

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: in vitro assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Unscheduled DNA synthesis (UDS)

Result: negative

Germ cell mutagenicity -

Assessment

In vitro tests did not show mutagenic effects

diphenylamine:

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

N-1-naphthylaniline:

Carcinogenicity - Assessment

: Animal testing did not show any carcinogenic effects.

triphenyl phosphate:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

diphenylamine:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

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IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

triphenyl phosphate:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

diphenylamine:

Reproductive toxicity - As-

sessment

No toxicity to reproduction No toxicity to reproduction

STOT - repeated exposure

Components:

N-1-naphthylaniline:

Exposure routes : Oral

Target Organs : Liver, Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

triphenyl phosphate:

Exposure routes : Oral

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity



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# **Components:**

### diphenylamine:

Species : Mouse, male NOAEL : 1.7 mg/kg LOAEL : 93.8 mg/kg

Application Route : Oral Exposure time : 90 d

Target Organs : Blood, Liver, Kidney

Species : Mouse, female NOAEL : 2.1 mg/kg LOAEL : 107 mg/kg

Application Route : Oral

Exposure time : 90 d

Target Organs : Blood, Liver, Kidney

# **Aspiration toxicity**

#### **Product:**

No aspiration toxicity classification

### **Further information**

**Product:** 

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Product:**

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

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### Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 71 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 51 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae EbC50 (Desmodesmus subspicatus (green algae)): > 100

ma/l

Exposure time: 72 h

Method: OECD Test Guideline 201

**Ecotoxicology Assessment** 

No toxicity at the limit of solubility, This product has no known Chronic aquatic toxicity

ecotoxicological effects.

N-1-naphthylaniline:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0.44 mg/l

> Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.68 mg/l

Exposure time: 48 h Test Type: semi-static test Analytical monitoring: yes

M-Factor (Acute aquatic tox-

icity)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.02 mg/l

Exposure time: 21 d

Analytical monitoring: yes

M-Factor (Chronic aquatic

toxicity)

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Toxicity to microorganisms EC50 (Protozoa): 2 mg/l

Exposure time: 48 h

EC50 (Bacteria): > 10,000 mg/l

Exposure time: 3 h



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triphenyl phosphate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.78 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oryzias latipes (Orange-red killifish)): 1.2 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1 mg/l

Exposure time: 48 h

EC50: 0.36 mg/l Exposure time: 48 h

Toxicity to algae : NOEC (Green algae (Scenedesmus subspicatus)): 0.25 - 2.5

mg/l

End point: Growth rate Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.037 mg/l

Exposure time: 30 d

diphenylamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.2 mg/l

Exposure time: 48 h

Persistence and degradability

**Product:** 

Biodegradability : Result: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

Method: CO2 Evolution Test



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N-1-naphthylaniline:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 100 mg/l

Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301

GLP: yes

triphenyl phosphate:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 83 - 94 %

Exposure time: 28 d

Method: OECD Test Guideline 301

**Bioaccumulative potential** 

Product:

Bioaccumulation : Remarks: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-

octanol/water

log Pow: > 7

N-1-naphthylaniline:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 427 - 2,730

Exposure time: 56 d Temperature: 77 °F / 25 °C Concentration: 0.1 mg/l

Partition coefficient: n-

: log Pow: 4.28

octanol/water

triphenyl phosphate:





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Bioaccumulation : Species: Oryzias latipes (Orange-red killifish)

Bioconcentration factor (BCF): 144

Exposure time: 18 d Temperature: 77 °F / 25 °C Concentration: 0.01 mg/l

Partition coefficient: n-

octanol/water

log Pow: 4.59 - 4.76

Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Other adverse effects

**Product:** 

Results of PBT and vPvB

assessment

This mixture contains no substance considered to be persis-

tent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

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Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

# **National Regulations**

#### **49 CFR**

Not regulated as a dangerous good

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### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards



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SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

n-Butene, homopolymer 9003-29-6 >= 1 - < 5 %

### California Prop. 65

WARNING: This product can expose you to chemicals including 1-naphthylamine, aniline, 2-naphthylamine, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

DSL : This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory





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PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

US.TSCA : All substances listed as active on the TSCA inventory

**TSCA list** 

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

### **Other Emergency Phone Number**

Latin America:	Brazil	+55 11 3197 5891
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 55 5004 8763

# Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / TWA : Time-Weighted Average Limit (TWA)

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensa-tion, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration asso- ciated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Har- monized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dan- gerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - In- ternational Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Indus- trial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Admin- istration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC

- No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop- ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu- lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substanc- es; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Sub- stance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, info r-mation and belief at the date of its publication. The information given is designed only as a guid- ance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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