

SAFETY DATA SHEET



ROTOROIL F2

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/18/2020	000000010097	Date of first issue: 09/18/2020

SECTION 1. IDENTIFICATION

Product name: ROTOROIL F2

Product Use Description: Lubricant

Synonyms: Synthetic Lubricant Formulation

Company: Manufacturer
 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 Product Safety
Department (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.

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

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 disposal 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 with 2,4,4-trimethylpentene	68411-46-1	>= 1 - < 5
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

ROTOROIL F2

Version Revision Date: SDS Number: Date of last issue: -
 1.0 09/18/2020 000000010097 Date of first issue: 09/18/2020

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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 application 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 storage 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 parameters / Permissible concentration	Basis
N-1-naphthylaniline	90-30-2	TWA	10 ml/m ³	ACGIH
triphenyl phosphate	115-86-6	TWA	3 mg/m ³	ACGIH
		TWA	3 mg/m ³	OSHA Z-1

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

		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 required.

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

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

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

Density : 0.956 g/cm³ (59 °F / 15 °C)
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.

Possibility of hazardous reactions : No decomposition if used as directed.

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

Conditions to avoid : No data available
Contamination

Incompatible materials : Strong acids and strong bases
Strong oxidizing agents

Hazardous decomposition products : Carbon oxides
Nitrogen oxides (NO_x)
Oxides of phosphorus

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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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 : 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 - Assessment : Animal testing did not show any carcinogenic effects.

diphenylamine:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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 - Assessment : No toxicity to reproduction

diphenylamine:

Reproductive toxicity - Assessment : 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

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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
- Toxicity to daphnia and other aquatic invertebrates : 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 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Ecotoxicology Assessment

- Chronic aquatic toxicity : No toxicity at the limit of solubility, This product has no known 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 toxicity) : 1
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.02 mg/l
 Exposure time: 21 d
 Analytical monitoring: yes
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (Protozoa): 2 mg/l
 Exposure time: 48 h
- EC50 (Bacteria): > 10,000 mg/l
 Exposure time: 3 h
-

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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 toxicity) : 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

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

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-octanol/water : log Pow: 4.28

triphenyl phosphate:

ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
 Date of first issue: 09/18/2020

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 persistent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection 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 information : 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 chemical or used container.
 Offer surplus and non-recyclable solutions to a licensed disposal company.

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

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

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

ROTOROIL F2

Version Revision Date: SDS Number: Date of last issue: -
1.0 09/18/2020 000000010097 Date of first issue: 09/18/2020

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 SOCM I 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
-

SAFETY DATA SHEET



ROTOROIL F2

Version 1.0 Revision Date: 09/18/2020 SDS Number: 000000010097 Date of last issue: -
Date of first issue: 09/18/2020

- 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

<u>Latin America:</u>	Brazil	+55 11 3197 5891
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+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 Limits 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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ROTOROIL F2

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/18/2020	000000010097	Date of first issue: 09/18/2020

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, 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 associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized 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 Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial 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 Administration; 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 Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (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 Substance 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

Revision Date : 07/15/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance 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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