







**ROTOROIL F2**

Version      Revision Date:      SDS Number:      Date of last issue: -  
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**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 <sup>3</sup>	ACGIH
triphenyl phosphate	115-86-6	TWA	3 mg/m <sup>3</sup>	ACGIH
		TWA	3 mg/m <sup>3</sup>	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 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

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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

Density : 0.956 g/cm<sup>3</sup> (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 mm<sup>2</sup>/s (104 °F / 40 °C)  
Method: ASTM D 445  
9.7 mm<sup>2</sup>/s (212 °F / 100 °C)  
Method: ASTM D 445

Oxidizing potential : No information available.

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#### 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.

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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 (NO<sub>x</sub>)  
 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 : 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.

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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 - 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

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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

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## 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

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

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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 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

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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-octanol/water : log Pow: 4.28

### **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 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.

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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

<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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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

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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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