

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Rotec RZ 60

Revision date: 01.03.2022

Product code: 243

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Rotec RZ 60

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Company name: Rotec B.V.  
 Street: Galileilaan 32  
 Place: NL-6716 BP Ede

Telefax: 0318 - 574156  
 Telephone: 0318 - 574151

Contact person: Dhr. J. van Broekhoven  
 e-mail: info@rotec-tools.nl

#### 1.4. Emergency telephone number:

Emergency telephone number (24h) + 44 1235 239670 (en)

#### Further Information

Reserved for industrial and professional use.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

#### 2.2. Label elements

#### 2.3. Other hazards

Avoid release to the environment.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
122-99-6	2-phenoxyethanol			2,5 %
	204-589-7	603-098-00-9	01-2119488943-21	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
122-99-6	204-589-7	2-phenoxyethanol	2,5 %
	dermal: LD50 = > 2214 mg/kg; oral: LD50 = 1840 mg/kg		

#### Further Information

Full text of H- and EUH-statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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**General information**

Seek medical attention if problems persist. No administration in cases of unconsciousness or cramps.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. Call a doctor if you feel unwell.

**After contact with skin**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated:

Nitrogen oxides (NO<sub>x</sub>).

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

See protective measures under point 7 and 8.

High slip hazard because of leaking or spilled product. Do not breathe mist/vapours/spray. Provide adequate ventilation.

**For non-emergency personnel**

Take off immediately all contaminated clothing and wash it before reuse.

**For emergency responders**

The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of danger zone.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners.

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#### **6.4. Reference to other sections**

Section 7: Handling and Storage

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Use only in well-ventilated areas.

When using do not eat, drink or smoke.

#### **Further information on handling**

When using do not eat, drink or smoke.

High slip hazard because of leaking or spilled product.

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

#### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 5-40 °C

Maximum period of storage (time): 1 year

#### **Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

### **7.3. Specific end use(s)**

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	

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#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
122-99-6	2-phenoxyethanol			
Worker DNEL, long-term		dermal	systemic	34,72 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	8,07 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	8,07 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	17,43 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	17,43 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	20,83 mg/person/day
Consumer DNEL, long-term		inhalation	local	2,5 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	2,5 mg/m <sup>3</sup>
1310-58-3	potassium hydroxide; caustic potash			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
141-43-5	2-aminoethanol, ethanolamine			
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,18 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day
141-43-5	2-aminoethanol; ethanolamine			
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,18 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,28 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day

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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
122-99-6	2-phenoxyethanol	
Freshwater		0,943 mg/l
Marine water		0,0943 mg/l
Freshwater sediment		7,2366 mg/kg
Marine sediment		0,7237 mg/kg
Soil		1,26 mg/kg
141-43-5	2-aminoethanol, ethanolamine	
Freshwater		0,07 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,357 mg/kg
Marine sediment		0,036 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,29 mg/kg
141-43-5	2-aminoethanol; ethanolamine	
Freshwater		0,07 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,357 mg/kg
Marine sediment		0,036 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		1,29 mg/kg

#### 8.2. Exposure controls



#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

EN 166

##### Hand protection

Protect skin by using skin protective cream.  
Wash hands before breaks and after work.

##### Skin protection

Chemical resistant safety shoes.  
Take off immediately all contaminated clothing.  
Thorough skin-cleansing after handling the product.  
Set out skin protection guidelines.

##### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Thermal hazards

Remove all sources of ignition.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow brown
Odour:	characteristic

**Test method****Changes in the physical state**

Boiling point or initial boiling point and boiling range:	not determined
Pour point:	not determined
Flash point:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
pH-Value (at 20 °C):	in aqueous solution 5% ; 9,4 DIN 51369
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 20 °C)	59 mm <sup>2</sup> /s ASTM D 7042
Vapour pressure:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,00 g/cm <sup>3</sup> DIN EN ISO 12185

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No known hazardous reactions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Protect against: heat.

**10.5. Incompatible materials**

The following must be prevented: Oxidizing agents, strong. acid.

**10.6. Hazardous decomposition products**

Hazardous decomposition products: none

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
122-99-6	2-phenoxyethanol				
	oral	LD50 mg/kg	1840	Rat	
	dermal	LD50 mg/kg	> 2214	Rabbit	

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the single components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 460 mg/l	220 -	96 h	Leuciscus idus	
	Acute algae toxicity	ErC50 mg/l	> 500	72 h	Scenedesmus sp.	
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna	
	Fish toxicity	NOEC	23 mg/l		Pimephales promelas	
	Crustacea toxicity	NOEC mg/l	9,43		Daphnia magna	
	Acute bacteria toxicity	(EC50 mg/l)	880		Bacteria	

### 12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
122-99-6	2-phenoxyethanol				
	OECD 301 F	90 %			
	Das Produkt ist biologisch leicht abbaubar.				
	OECD 301 A	90 %			
	Das Produkt ist biologisch leicht abbaubar.				

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
122-99-6	2-phenoxyethanol	1,2

#### BCF

CAS No	Chemical name	BCF	Species	Source
122-99-6	2-phenoxyethanol	< 100		

#### 12.4. Mobility in soil

in delivery condition: liquid

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
none according to Regulation (EC) No. 1907/2006 (REACH)

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

##### List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

##### Contaminated packaging

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** Not a hazardous material with respect to transportation regulations.  
**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.  
**14.3. Transport hazard class(es):** Not a hazardous material with respect to transportation regulations.  
**14.4. Packing group:** Not a hazardous material with respect to transportation regulations.

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#### Other applicable information (land transport)

Not restricted

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** Not a hazardous material with respect to transportation regulations.

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**14.3. Transport hazard class(es):** Not a hazardous material with respect to transportation regulations.

**14.4. Packing group:** Not a hazardous material with respect to transportation regulations.

#### Other applicable information (inland waterways transport)

Not restricted

#### Marine transport (IMDG)

**14.1. UN number or ID number:** Not a hazardous material with respect to transportation regulations.

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**14.3. Transport hazard class(es):** Not a hazardous material with respect to transportation regulations.

**14.4. Packing group:** -

#### Other applicable information (marine transport)

Not restricted

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** Not a hazardous material with respect to transportation regulations.

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**14.3. Transport hazard class(es):** Not a hazardous material with respect to transportation regulations.

**14.4. Packing group:** -

#### Other applicable information (air transport)

Not restricted

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Personal protection equipment: see section 8

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,6,7,11,12,13,15.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan),

ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

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**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 Repr. - Reproduktionstoxizität  
 Asp. Tox. - Aspirationstoxizität  
 Acute Tox. - Akute Toxizität  
 Aquatic Acute - Akute aquatische Toxizität  
 Aquatic Chronic - Chronische aquatische Toxizität  
 Eye Dam. - Augenschaden/-reizung  
 Eye Irrit. - Augenreizung  
 Skin Corr. - Ätzwirkung auf die Haut  
 Skin Irrit. - Hautreizung  
 Skin Sens. - Hautallergen  
 Resp. Sens. - Inhalationsallergen  
 STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition  
 STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition  
 VOC - Flüchtige organische Verbindungen

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.

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**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*