

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

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

#### 1.1 Product identifier

Trade name : Power Reiniger DE  
Identification number : 40000224

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

Use of the Substance/Mixture : Cleaning agent

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

Company : Bergal, Nico & Solitaire Vertr. GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196404  
Telefax : +4961319642515  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H222  
H229

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Precautionary statements :

P102

Keep out of reach of children.

##### Prevention:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

##### Storage:

P410 + P412

Protect from sunlight. Do not expose to

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

**Disposal:** temperatures exceeding 50 °C/ 122 °F.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
Warning! Container under pressure.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution  
contains  
Propellant

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
ethanol	64-17-5 200-578-6 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319  SCL >= 50 % 2; H319	>= 1 - < 2

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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 : Protect unharmed eye.  
If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

Further information : Use water spray to cool unopened containers. 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 safety reasons in case of fire, cans should be stored separately in closed containments.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations.  
Vapours can accumulate in low areas.

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure.

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any incandescent material. Take measures to prevent the build up of electrostatic charge.

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.

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

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in original container. Store in cool place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Power Reiniger DE**

**WM 909001**

**Order number:**

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

Contains no substances with occupational exposure limit values.

**DNEL**

**ethanol  
64-17-5:**

- : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 1900 mg/m<sup>3</sup>
  
- End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 950 mg/m<sup>3</sup>
  
- End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 343 mg/kg
  
- End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 950 mg/m<sup>3</sup>
  
- End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 206 mg/kg
  
- End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 114 mg/m<sup>3</sup>
  
- End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 87 mg/kg
  
- End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Acute local effects  
Value: 950 mg/m<sup>3</sup>

**PNEC**

**ethanol  
64-17-5:**

- : Fresh water  
Value: 0,96 mg/l
  
- Marine water  
Value: 0,79 mg/l
  
- Fresh water sediment  
Value: 3,6 mg/kg

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

Soil  
Value: 0,63 mg/kg

STP  
Value: 580 mg/l

intermittent release  
Value: 2,75 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : not required under normal use

#### Hand protection

Material : not required under normal use

For prolonged or repeated contact use protective gloves.  
It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1: 2003 (0,4 mm).  
As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Ensure adequate ventilation, especially in confined areas.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Recommended Filter type:  
ABEK-P3-filter

#### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Foam  
Colour : colourless  
Odour : characteristic  
Odour Threshold : No data available

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: -0,5 °C
Flash point	: -60 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,959 g/cm <sup>3</sup>
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Skin corrosion/irritation : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : Not Rated

Further information : Solvents may degrease the skin.

#### Components:

##### **ethanol**

##### **64-17-5:**

Acute oral toxicity : LD50 Oral Rat: 10.470 mg/kg  
Method: OECD Test Guideline 401



**Power Reiniger DE**

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

		LD50 Rat: 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 Rat: 51 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 Dermal Rabbit: > 2.000 mg/kg Method: OECD Test Guideline 402
		LD50 Dermal Rabbit: > 10.000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation	:	Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation	:	Species: Rabbit Result: Mild eye irritation Method: OECD Test Guideline 405
Respiratory or skin sensitisation	:	Species: Mouse Result: Does not cause skin sensitisation. Method: see user defined free text
Reproductive toxicity	:	Species: Rat Application Route: Oral NOAEL: 5.200 mg/kg  Species: Rat Application Route: Oral NOAEL: 13.800 mg/kg  Species: Rat Application Route: Inhalation NOAEL: 30400 mg/m3
Repeated dose toxicity	:	Rat, male: NOAEL: > 20 mg/kg  Method: OECD Test Guideline 403  Rat, female: NOAEL: 1.730 mg/kg  Method: OECD Test Guideline 408

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

ethanol

**Power Reiniger DE**

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

**64-17-5:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 13 g/l Exposure time: 96 h Method: OECD Test Guideline 203
	LC50 (Leuciscus idus (Golden orfe)): 8.150 mg/l Exposure time: 48 h
	LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l Exposure time: 96 h
	LC50 (Fish): 11.200 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 12.340 mg/l Exposure time: 48 h
	EC50 : 5.012 mg/l
Toxicity to algae	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
	EC50 (Scenedesmus capricornutum (fresh water algae)): 12.900 mg/l Exposure time: 48 h Test Type: Growth inhibition Method: No information available.
	EC0 (Scenedesmus quadricauda (Green algae)): 5.000 mg/l Exposure time: 168 h
	EC50 : 4.432 mg/l
	EC10 : 11,5 mg/l
	EC10 : 280 mg/l
Toxicity to bacteria	: EC50 (Pseudomonas putida): 11.800 mg/l Exposure time: 16 h Test Type: Cell multiplication inhibition test

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**Components:**

**ethanol**

**64-17-5:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Method: OECD Test Guideline 301

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

### 12.3 Bioaccumulative potential

**Components:**

ethanol

64-17-5:

Bioaccumulation : Concentration: 3,2 mg/l

Partition coefficient: n-octanol/water : log Pow: -0,32

### 12.4 Mobility in soil

**Components:**

ethanol

64-17-5:

Distribution among environmental compartments : Koc: 1Remarks: Highly mobile in soils

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Empty pressure vessels should be returned to the supplier.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

Waste Code : European Waste Catalogue  
16 05 04\*  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

## SECTION 14: Transport information

### 14.1 UN number

ADR : 1950

IMDG : 1950

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

IATA : 1950

### 14.2 Proper shipping name

ADR : AEROSOLS

IMDG : AEROSOLS

IATA : Aerosols, flammable

### 14.3 Transport hazard class

ADR : 2

IMDG : 2.1

IATA : 2.1

### 14.4 Packing group

ADR

Classification Code : 5F

Labels : 2.1

Tunnel restriction code : (D)

IMDG

Labels : 2.1

EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203

Packing instruction (LQ) : Y203

Labels : 2.1

### 14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations : Not applicable

## Power Reiniger DE

WM 909001

Order number:

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

and articles (Annex XVII)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 000067	500 000067

TA Luft List (Germany) :

- Total dust: Not applicable
- Inorganic substances in powdered form: Not applicable
- Inorganic substances in vapour or gaseous form: Not applicable
- Organic Substances: Not applicable
- Carcinogenic substances: : portionClass 3: < 0,01 %
- Mutagenic: : < 0,01 %
- Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content :

- Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
- Update: Percent volatile: 6,33 %
- 547,47 g/l
- VOC content excluding water

Volatile organic compounds (VOC) content :

- Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
- Update: Percent volatile: 6,33 %
- 60,67 g/l
- VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 :

- 5 - <15% Aliphatic hydrocarbons, <5% Non-ionic surfactants

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure: H222, H229 Based on product data or assessment

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European

**Power Reiniger DE**

**WM 909001**

**Order number:**

Version 3.0

Revision Date 06.12.2018

Print Date 07.12.2018

Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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