

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

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

- 1.1 Product identifier

- Trade name **Leracid® 165**

- UFI: R520-U02H-F00Y-C6YW

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

No further relevant information available.

- **Application of the substance / the mixture** Cleaning agent / Cleaner

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

PERKUTE - Maschinenbau GmbH

Düsterbergstr. 10

D-48432 Rheine

Tel. ++ 49 / 59 71 / 80 81 68 - 0

Fax ++ 49 / 59 71 / 80 81 68 - 1

E-Mail: info@perkute.de

- **Informing department:** Product safety department

- 1.4 Emergency telephone number:

National Poisons Information Service (NPIS) - Emergency call (healthcare professionals): (+44) 844 892

0111 - 0344 892 0111

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

Met. Corr. 1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard-determining components of labelling:**

phosphoric acid

fatty alcohol alcoxylate

nitrilotrimethylenetris(phosphonic acid)

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P260 Do not breathe dusts or mists.

P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions (aqueous solution).

- **Dangerous components:**

CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24	phosphoric acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Acute Tox. 4, H302	50-100%
Polymer Reg.nr.: 02-2119548491-37	fatty alcohol alcoxylate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 3, H412	< 2.5%
CAS: 6419-19-8 EINECS: 229-146-5 Reg.nr.: 01-2119487988-08	nitrilotrimethylenetris(phosphonic acid) Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	< 2.5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

- **Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:

- > 30 % phosphates
- < 5 % non-ionic surfactants,
- < 5 % phosphonates

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General advice:**

Instantly remove any clothing soiled by the product.

In case of unconsciousness bring patient into stable side position for transport.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- **After eye contact**

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** Do not induce vomiting. Drink plenty of water. Call for medical help.

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

Burning effect and pain to eyes, skin and mucous membranes. After swallowing serious irritation to oral cavity and throat as well as danger of perforation of the gullet.

- **4.3 Indication of any immediate medical attention and special treatment needed**

In cases of irritation to the lungs, initial treatment with Dexamethason metered aerosol.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

Product is non-flammable. Use fire fighting measure that suit the surroundings.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture**
Reacts with base metals forming readily flammable hydrogen.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear full protective suit with self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment and keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Dilute with much water.
If large amounts are released, the authorities must be informed.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
When diluting, always stir the product into standing water.
Keep containers tightly sealed. Only use original container.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Store in cool, dry conditions in well sealed containers.
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storage and handling of water hazardous substances
Store in original containers or in PE-containers.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 8 B L (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**

7664-38-2 phosphoric acid

WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
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(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 3)

- DNELs		
7664-38-2 phosphoric acid		
Inhalative	DNEL (worker)	2.92 mg/m ³ (Long-term - local effects)
	DNEL (population)	0.73 mg/m ³ (Long-term - local effects)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:** In case of dizzying-dust breathing protection is required

- **Recommended filter device for short term use:** Combination filter E-P2

- **Protection of hands:** Protective gloves.

- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses.

- Body protection:

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: Light yellow

- **Smell:** Mild

- **pH-value (10 g/l) at 20 °C:** ~ 2.0

- **Melting point/freezing point:** Not determined

- **Initial boiling point and boiling range:** > 100 °C

- **Flash point:** Product is non-flammable nor potentially explosive

- **Explosive properties:** Product is not potentially explosive

- **Density at 20 °C** ~ 1.44 g/cm³

- **Solubility in / Miscibility with Water:**

Fully miscible

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 4)

- 9.2 Other information	sensitive to cold: -10°C
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
With bases (concentrated): violent neutralization reaction with release of heat (risk of splashes). Exothermic reaction when diluted with water. Reacts with many metals forming readily flammable hydrogen (danger of fire or explosion). Corrosive action on metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

7664-38-2 phosphoric acid

Oral	LD50	1,250 mg/kg (rat)
Dermal	LD50	2,740 mg/kg (rabbit)

fatty alcohol alcoxylate

Oral	LD50	>2,000-5,000 mg/kg (rat)
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6419-19-8 nitrilotrimethylenetrakis(phosphonic acid)

Oral	LD50	>5,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** 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.

GB

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 5)

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

7664-38-2 phosphoric acid

LC 50 / 96 h	98-106 mg/l (<i>Lepomis macrochirus</i>)
EC 50 / 48 h	>100 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC 50 / 72 h	>100 mg/l (<i>Desmodesmus subspicatus</i>) (OECD 201)
NOEC / 72 h	100 mg/l (<i>Desmodesmus subspicatus</i>) (OECD 201)

fatty alcohol alcoxylate

LC 50 / 96 h	<1 mg/l (<i>Leuciscus idus</i>)
EC 50 / 48 h	<1 mg/l (<i>Daphnia magna</i>)
EC 50 / 72 h	0.1-1 mg/l (<i>Algae</i>)
	<1 mg/l (<i>Scenedesmus subspicatus</i>) (OECD 201)
NOEC	0.1-1 mg/l (<i>Daphnia magna</i>) (21 d)
EC 10	>0.01-0.1 mg/l (<i>Scenedesmus subspicatus</i>) (72 h, OECD 201)

- 12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

fatty alcohol alcoxylate

BSB - Abnahme	>60 % (OECD 301 F)
BiAS - Elimination	>90 % (OECD 303 A)
CO2 - Entwicklung	>60 % (OECD 301 B)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- Ecotoxicological effects:

- Remark:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful effect on fish, plankton and other waterorganism by pH shift possible.

Phosphates contribute to eutrophication of standing waters and lakes

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

fatty alcohol alcoxylate

EC 10	>1,000 mg/l (activated sludge (DEV - L2))
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- Additional ecological information:

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 6)

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. GA used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal site.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings: Disposal must be made according to official regulations.

- Recommendation:

Containers may be completely emptied and cleaned and send to be reconditioned or recycled. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

* SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	<p style="margin: 0;">UN3264</p>
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG, IATA 	<p style="margin: 0;">3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)</p>
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR - Class - Label 	<p style="margin: 0;">8 (C1) Corrosive substances. 8</p>
<ul style="list-style-type: none"> - IMDG, IATA - Class - Label 	<p style="margin: 0;">8 Corrosive substances. 8</p>
<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	<p style="margin: 0;">III</p>
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Kemler Number: - EMS Number: - Segregation groups - Stowage Category - Stowage Code 	<p style="margin: 0;">Warning: Corrosive substances. 80 F-A,S-B Acids A SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p style="margin: 0;">Not applicable.</p>
<ul style="list-style-type: none"> - Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ) - Transport category - Tunnel restriction code 	<p style="margin: 0;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E</p>

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 7)

- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION), 8, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard-determining components of labelling:**

phosphoric acid

fatty alcohol alcoxylate

nitrilotrimethylenetris(phosphonic acid)

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P260 Do not breathe dusts or mists.

P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

- **Directive 2012/18/EU**

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **VOC:** None.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 9)

Safety data sheet

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Printing date 27.01.2021

Version number 116

Revision: 25.01.2021

Trade name **Leracid® 165**

(Contd. of page 8)

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Application:** Directions for use: please refer to the Technical Information Sheet

- **UFI market placements:**

- **Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** see item 1: Informing department

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * **Data compared to the previous version altered.**