

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.02.2023

Version number 101.01 (replaces version 101.00)

Revision: 17.01.2023

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

- 1.1 Product identifier

- Trade name **Leracid 165-50**

- 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:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

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P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24	phosphoric acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: $C \geq 25\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$	25-50%
	fatty alcohol alcoxylate Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥ 1 -<2,5%
CAS: 6419-19-8 EINECS: 229-146-5 Reg.nr.: 01-2119487988-08	nitrotrimethylenetrakis(phosphonic acid) Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	≥ 1 -<2,5%
EC number: 941-793-1 Reg.nr.: 01-2120065599-40	2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane Acute Tox. 2, H330; Repr. 2, H361; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	<1%

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

phosphates	$\geq 30\%$
non-ionic surfactants, phosphonates	<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.**- 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 and pain of the eyes, skin and mucous membranes. After swallowing, strong irritant effect on the oral cavity and pharynx as well as danger of perforation of the oesophagus.

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- 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.
- **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 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).
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** Wear protective clothing.
- **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.

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Components with critical values that require monitoring at the workplace:

7664-38-2 phosphoric acid

IOELV (EU)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
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- DNELs

7664-38-2 phosphoric acid

Oral	DNEL (population)	0,1 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2 mg/m ³ (Acute, local effects) 10,7 mg/m ³ (Long-term, systemic effects) 1 mg/m ³ (Long-term - local effects)
	DNEL (population)	4,57 mg/m ³ (Long-term, systemic effects) 0,36 mg/m ³ (Long-term - local effects)

2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane

Oral	DNEL (population)	0,2 mg/kg (Long-term, systemic effects)
Dermal	DNEL (worker)	0,7 mg/cm ² (Long-term, systemic effects)
	DNEL (population)	0,4 mg/cm ² (Long-term, systemic effects)
Inhalative	DNEL (worker)	2,5 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	0,6 mg/m ³ (Long-term, systemic effects)

- PNECs

2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane

PNEC water	0,1 mg/l (freshwater) 0,01 mg/l (Seawater) 1 mg/l (sewage plant)
PNEC sediment	0,082 mg/kg dw (freshwater) 0,008 mg/kg dw (Seawater) 0,019 mg/kg dw (soil)

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

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as 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

- **Hand protection** Protective gloves (EN 374).

- **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.

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- 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/face protection Tightly sealed safety glasses.**- Body protection:** Standard protective working clothes

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information**

- Colour:	Light yellow
- Smell:	Mild
- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	Not determined
- Flash point:	Product is non-flammable nor potentially explosive
- pH at 20 °C	<2
- pH-value:	
- Viscosity:	
- Kinematic viscosity	Not determined.
- dynamic:	Not determined.
- Solubility	
- Water:	Fully miscible
- Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
- Density and/or relative density	
- Density at 20 °C	1,33 g/cm ³

- 9.2 Other information

- Appearance:	Sensitive to cold from -10°C
- Form:	Fluid
- Important information on protection of health and environment, and on safety.	
- Explosive properties:	Product is not potentially explosive

- Information with regard to physical hazard classes

- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void

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- Corrosive to metals

May be corrosive to metals.

- Desensitised explosives

Void

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** Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Bases, base metal

* 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.

- 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 mg/kg (rat)
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6419-19-8 nitrilotrimethylenetris(phosphonic acid)

Oral	LD50	>5.000 mg/kg (rat)
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2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane

Oral	LD50	464 mg/kg (rat) (OECD 401)
Dermal	LD50	>5.000 mg/kg (rat) (OECD 402)
Inhalative	LC 50	1,67 mg/l (rat) (OECD 403)

- **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.
- **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.

- STOT-repeated exposure:**2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane**

Oral	NOAEL	25 mg/kg /96d (rat) (OECD 408)
		125 mg/kg /Sonderernäh (rat) (OECD 422)

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- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

* SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

7664-38-2 phosphoric acid

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

fatty alcohol alcoxylate

EC 50 / 48 h	1-10 mg/l (Daphnia magna)
EC 50 / 96 h	1-10 mg/l (Leuciscus idus)
EC 50 / 72 h	1-10 mg/l (Algae)

2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane

EC 50	1.097 mg/l (Aquatic invertebrates)
	101 mg/l (Daphnia)

- 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.

- 12.3 Bioaccumulative potential No further relevant information available.

- 12.4 Mobility in soil No further relevant information available.

- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects

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

fatty alcohol alcoxylate

EC 10 / 0,5 h	>10.000 mg/l (DIN 38412 Teil 27 (Entwurf))
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2-Propyn-1-ol, reaction product with 1-2.5 moles of oxirane

EC 10	0,01 mg/l /Meerwasser (Algae)
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- Additional ecological information:

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

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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.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. A 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

- 14.1 UN number or ID number	
- ADR/RID/ADN, IMDG, IATA	UN3264
- 14.2 UN proper shipping name	
- ADR/RID/ADN	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION, nitrilo-trimethylenetris(phosphonic acid))
- IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION, nitrilo-trimethylenetris(phosphonic acid))
- 14.3 Transport hazard class(es)	
- ADR/RID/ADN	
- Class	8 (C1) Corrosive substances.
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR/RID/ADN, IMDG, IATA	III
- 14.6 Special precautions for user	
- Kemler Number:	80
- EMS Number:	F-A, S-B
- Segregation groups	Acids
- Stowage Category	A
- Stowage Code	SW2 Clear of living quarters.
- Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides

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- 14.7 Maritime transport in bulk according to IMO instruments		Not applicable.
- Transport/Additional information:		
- ADR/RID/ADN		
- Limited quantities (LQ)	5L	
- Excepted quantities (EQ)	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
- 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, S O L U T I O N , NITRILOTRIMETHYLENETRIS(PHOSPHONIC ACID)), 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 alcoxyolate
nitrilotrimethylenetris(phosphonic acid)
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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.

- **REGULATION (EU) 2019/1148**

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **VOC:** None.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

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

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.

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

- **Date of previous version:** 17.01.2023

- **Version number of previous version:** 101.00

- **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

NOAEL: No Observed Adverse Effect Level

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

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*DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 2: Acute toxicity – Category 2**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**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***- * Data compared to the previous version altered.**

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