

Date of issue: 08.06.2020; Rev. SDS1.0EN; Replaces Data Sheet of: 01.06.2016
"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade Name: Lab Clean™
Article – No.: 15-4100
Index number: n.ap.
EG number: n.ap.
CAS number: n.ap.
Registration number: n.ap.

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

Uses advised against: No further relevant information available.

Other non-specified industry: Cleaning solution for DNA decontamination of laboratory areas.

1.3 Details of the supplier of the safety data sheet**1.3.1* Address of the Company / Supplier:**

Minerva Biolabs GmbH, Schkopauer Ring 13, 12681 Berlin
Telephone: +49 30 - 2000 437-0, E-Mail: rc@minerva-biolabs.com

1.3.2* Responsible for the data sheet:

rc@minerva-biolabs.com

1.4 Emergency telephone number

Emergency - Telephone of Company / Undertaking
Telephone: +49 30-2000 437-0 (08:30 – 16:30)

Information Centre Specializing in Symptoms of Poisoning
Telephone: +44 870 600 6266

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Mixture

Classification and labelling according to directive 1272/2008/EC:

Skin. Corr. 1B, H314

Eye. Dam. 1, H318

Hazard Statements

Causes severe skin burns and eye damage.

2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: No.

Signal word(s): Danger

Component(s):

Contains: Phosphoric acid ...%; orthophosphoric acid
C12-C14 Fatty alcohol ethoxylate

Hazard pictogram(s):

**Hazard statements (H-Phrases):**

H314 Causes severe skin burns and eye damage.

Precautionary statements (P-Phrases):

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

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water/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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

The above mentioned labelling is valid for distribution to industrial user.

2.3 Other Hazards

This mixture contains no substances which are assessed to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.ap.

3.2 Mixtures

Product/ingredient name		H-Phrases	m%-range
Cas – No.	EC – No.		
Phosphoric acid ...%, orthophosphoric acid		Skin Corr. 1B, H314	<60
7664-38-2	231-633-2		
C12-C14 Fatty alcohol ethoxylate		Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1 (M-Factor = 1), H400	<10
68439-50-9			

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8. Text of H - phrases: see section 16.

Chemical Characterization:

n.ap.

SECTION 4: First aid measures

4.1 Description of first aid measures

Take off immediately all contaminated clothing.

4.1.1 Inhalation:

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

4.1.2 Skin Contact:

Immediately wash with water and soap and rinse thoroughly. In case of skin irritation, seek medical treatment.

4.1.3 Eye Contact:

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eye lids apart. Consult an ophthalmologist.

4.1.4 Ingestion:

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects:

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

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Over-exposure signs/symptoms:

Eye Contact:	No specific data.
Inhalation:	No specific data.
Skin Contact:	No specific data.
Ingestion:	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician:**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatments:

No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

Water, Foam, Atomized water.

5.1.2 Extinguishing Media to Avoid:

Water with full jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Nitrogen oxides (Nox), Carbon dioxide (CO₂), Phosphorus oxides.

5.3 Advice for firefighters**5.3.1 Special Protective Equipment:**

Use appropriate respiratory protection. Do not inhale explosion or combustion gases.

5.3.2 Additional Information:

Material not combustible. Extinguishing materials should be selected according to surrounding.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

6.1.2 For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "6.1.1 For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up**6.3.1 Small spill**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.3.2 Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.

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See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1.1 Precautions for Safe Handling:

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Store in cool, dry place in tightly closed receptacles. Do not ingest. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes. Put on appropriate personal protective equipment (see Section 8). Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.1.2 Precautions in Case of Fire and Explosion:

Product is not: Oxidizing, Flammable, Explosive. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Storage Instructions:

Storage temperature: Ambient Temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.2.2 Store away from:

Store away from food and drink.

7.2.3 Further Information on Storage Conditions:

Keep container tightly sealed. Store receptacle in a well ventilated area.

7.3 Specific end use(s)

n.av.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Material	Limit Value
7664-38-2 Orthophosphoric acid	Category: TWA (8 h) Origin: WEL mg/m ³ : 1
	Category: TWA (15 min) Origin: WEL mg/m ³ : 2

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.2.2 Individual protection measures

8.2.2a Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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8.2.2b Respiratory protection:

Respiratory protection not required.

8.2.2c Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Suitable material: PE (polyethylene), CR (polychloroprenes, chloroprene rubber), NBR (nitrile rubber), butyl rubber, FKM (fluoroelastomer (viton)). Penetration time (maximum wearing period): >480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration. Recommended protective gloves brand: Camapren 722, Manufacturer KCL, or compatible makes from other companies.

8.2.2d Eye/face protection:

Wear eye/face protection.

8.2.2e Body protection:

Lab apron.

8.2.2f Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

8.2.2g Further Information:

Observe wearing time limits.

8.2.3 Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1	Physical state: Fluid	Colour: colourless – light yellow	Odour: Characteristic
			Odour threshold: n.av.
9.1.2	pH-value, undiluted:	0.5 (DGF H-III 1)	
9.1.3	pH-value, 1% aqueous solution:	1.9 (DGF H-III 1)	
9.1.4	Melting point / freezing point (°C):	-20°C	
9.1.5	Boiling point / Boiling - range (°C):	100	
9.1.6	Flash point (°C):	n.av.	
9.1.7	Evaporation rate:	n.av.	
9.1.8	Flammability (EEC A10/A13):	n.av.	
9.1.9	Ignition temperature (°C):	n.av.	
9.1.10	Autoflammability (EEC A16):	Product is not self-igniting.	
9.1.11	Explosion hazard:	Product is not explosive.	
9.1.12	Oxidising properties:	n.av.	
9.1.13	Explosion limits (Vol.%) lower/upper:	n.av. / n.av.	
9.1.14	Vapour pressure (20°C):	n.av.	
9.1.15	Vapour density (Air = 1):	n.av.	
9.1.16	Density (g/ml):	1.36 g/cm ³ (DIN 12791)	
9.1.17	Solubility (in Water):	fully miscible	
9.1.18	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.19	Viscosity:	n.av.	
9.1.20	Solvent content (m %):	n.av.	
9.1.21	Thermal decomposition (°C):	n.av.	
9.1.22	Evaporation rate:	n.av.	
9.2	Other information		
	n.av.		

SECTION 10: Stability and reactivity

10.1 Reactivity

None, in case of proper use.

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10.2 **Chemical stability**

The product is chemically stable under normal ambient conditions.

10.3 **Possibility of hazardous reactions**

None, in case of proper use.

10.4 **Conditions to avoid**

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 **Incompatible materials**

Alkalis (alkalis), concentrated, Alkali metals.

10.6 **Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10.7 **Further information**

Do not mix with other products

SECTION 11: Toxicological information

11.1 **Information on toxicological effects**

Acute Health Effects:

7664-38-2 Orthophosphoric acid

Oral: LD50 1530 mg/kg (rat)

Dermal: LD50 1.69 mg/l 1h (rat)

68439-50-9 C12-C14 Fatty alcohol ethoxylate

Oral: ATE 500 mg/kg

Skin corrosion / irritation: corrosive

Serious eye damage / irritation: corrosive

Respiratory or skin sensitisation: n.av.

Germ cell mutagenicity: n.av.

Carcinogenicity: n.av.

Reproductive toxicity: n.av.

Specific target organ toxicity
(single exposure):

Product/ingredient name	Category	Route of exposure	Target organs

Specific target organ toxicity

(repeated exposure): n.av.

Aspiration hazard: n.av.

11.1.1 – **Practical Experience**

11.1.1.1 n.av.

11.1.1.2 Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

11.2 **Information on the likely routes of exposure**

Routes of entry anticipated: Oral, Dermal, Inhalation.

11.3 **Potential acute health effects**

Inhalation:

May cause respiratory irritation.

Ingestion:

Irritating to mouth, throat and stomach.

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Skin contact:

Causes serious skin irritation.

Eye contact:

Causes serious eye irritation.

11.4 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

Adverse symptoms may include the following:

- respiratory tract irritation
- coughing
- wheezing and breathing difficulties

Ingestion:

No specific data.

Skin contact:

Adverse symptoms may include the following:

- irritation
- redness

Eye contact:

Adverse symptoms may include the following:

- pain or irritation
- watering
- redness

11.5 Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: n.av.

Potential delayed effects: n.av.

Long term exposure

Potential immediate effects: n.av.

Potential delayed effects: n.av.

Potential chronic health effects: n.av.

11.6 Conclusion/Summary

General:	No known significant effects or critical hazards..
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Other information:	n.av.

SECTION 12: Ecological information

12.1 Toxicity

Technical correct releases of minimal concentrations to adapted biological sewage treatment facility will not disturb the biodegradability of activated sludge.

7664-38-2 Orthophosphoric acid

Acute fish toxicity: LC50 138 mg/l (Gambus affinis)

12.2 Persistence and degradability

The surfactants contained in this preparation 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

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

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12.4 **Mobility in soil**

n.av.

12.5 **Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 **Other adverse effects**

- 12.6.1 COD-Value, mg/g: n.av.
- 12.6.2 BOD5-Value, mg/g: n.av.
- 12.6.3 AOX-Remarks: n.ap.
- 12.6.4 Significant Components: n.av.
- 12.6.5 Other adverse effects: n.ap.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 **Waste treatment methods**

13.1.1 **Product methods of disposal**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

13.1.2 **Packaging methods of disposal**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13.2 **Contaminated Packaging**

Recommendation: n.av.

Safe Handling: as described under 13.1.1




13.2.3 **Waste - Code - No.**

n.av.

13.3 **Special precautions**

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR	IMDG	IATA
14.1	UN number		
	UN1805	UN1805	UN1805
14.2	UN proper shipping name		
	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION
14.3	Transport hazard class(es)		
	 Class: 8 Label: 8	 Class: 8 Label: 8	 Class: 8 Label: 8
14.4	Packing group		
	III Hazard label: 8 Classification code: C1	III Hazard label: 8	III Hazard label: 8 Packaging instructions passenger: 852 Max. quantity Passenger: 5L Packaging Instructions cargo: 856

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			Max. quantity Cargo: 60L
14.5	Environmental hazards		
		Marine Pollutant: no	
14.6	Special precautions for user		
	Danger code (Kemler): 80	EMS Number: F-A, S-B	
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
		None.	
14.8	Transport/Additional information		
	Transport category: 3 LQ: 5L Tunnel restriction code: E	Special Provisions: 223 LQ: 5L Excepted Quantities: E1	Special Provisions A3 A803 LQ Passenger : 5L Excepted Quantity : E1 Passenger LQ : Y841

SECTION 15: Regulatory information

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

Other regulations, limitations and prohibitive regulations:

EU regulatory information

2004/42/EC (VOC) 0% (0 g/l)

National regulatory

Water contaminating class (D) 2 – water contaminating

15.2 Chemical safety assessment:

None.

SECTION 16: Other information

16.1 Abbreviations and acronyms

ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

16.2 Full text of hazard and/or precautionary statements from section 2 to 15

16.2.1 Full text of abbreviated H statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.

16.2.2 Full text of classifications [CLP/GHS]

Skin Corr. 1B, H314 SKIN CORROSIVE – Category 1B
 Eye Dam. 1, H318 SERIOUS EYE DAMAGE – Category 1

16.3 Other

This datasheet has been compiled in accordance with EU regulation 2015/830. The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

16.4 Notice to reader

The statements contained herein are based upon technical data that Minerva Biolabs GmbH believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and

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emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. Minerva Biolabs GmbH MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.