

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.02.2017

Version number 2

Revision: 22.02.2017

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

· 1.1 Product identifier

· Trade name: SCALEX FRESH

· Index number: Not specified, mixture

· Registration number: Not specified, mixture

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

For industrial purposes.

High-quality steel cleaner

· Uses advised against None known

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

TECHNIQUA HANDELS GmbH

Reichenhaller Straße 15

D-83451 Piding

Tel: +49 (8651) - 767 62 51

E-Mail: sales@techniqua.de

· 1.4 Emergency telephone number

Poison information center

Tel: +49 (0) 6131 - 19240, Langenbeckstraße 1, D- 55131 Mainz

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.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B 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 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Orthophosphoric acid 85%

· Hazard statements

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe gas, mist, vapours or spray.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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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.

P405 Store locked up.

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** No PBT.

· **vPvB:** No vPvB.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: 3.2. Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 RTECS: TB 6300000 Reg.nr.: 01-2119485924-24-	Orthophosphoric acid 85% Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	25-50%
CAS: 77-92-9 EINECS: 201-069-1 RTECS: GE 7350000 Reg.nr.: 01-2119457026-42-	Citric acid Eye Irrit. 2, H319	10-25%

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

SECTION 4: First aid measures

· **4.1. Description of first aid measures**

Immediately remove any clothing soiled by the product.

When symptoms occur or in case of doubt, seek medical advice.

Resuscitation should be provided in life-threatening conditions as follows:

If not breathing – artificial respiration must be initiated immediately, using mouth-to-mouth resuscitation;

Cardiac arrest – indirect heart massage must be initiated immediately;

Unconsciousness – the victim must be placed in a stabilized position.

If vomiting occurs, keep the victim's head below the hips to avoid the aspiration of vomit into the lungs.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

Cover wound with a sterile dressing.

Call a doctor immediately.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Protect unharmed eye.

Immediately call in ophthalmologist.

Never not to neutralize.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

Not to neutralize.

Do not administer activated charcoal.

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

*If ingested, severe burns of the mouth and throat, as well as danger of perforation of the oesophagus and the stomach.
Severe burns to skin, tissue, gastrointestinal tract, eyes and mucous membranes.*

Causes irritation to eyes, skin and respiratory tract.

Coughing

Dizziness

Breathing difficulty

Cramp

· Information for doctor: None**· Hazards**

Danger of gastric perforation.

Danger of pneumonia.

Causes serious eye damage.

Blindness

Damage of:

Liver

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

Symptomatic treatment

Set up eyewash and safety showers are close to the workstation.

SECTION 5: Firefighting measures

· 5.1. Extinguishing media

Incombustible

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Not known**· 5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

The gases are heavier than air.

In case of fire, the following can be released:

oxides of phosphorus.

Carbon oxides (CO, CO₂)

· 5.3. Advice for firefighters

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Suppress (knock down) gasses / vapors / mists with a water spray jet.

Exothermic reaction with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Do not breathe vapours, aerosols.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

· 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.

soda, lime

Pick up mechanically.

Collect in properly labeled containers.

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In a closed container transfer to the designated location for disposal.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **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 disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

When diluting always pour product into water and not vice versa.

· **Information about fire - and explosion protection:**

The product is not flammable.

Store-houses must meet the fire safety requests for buildings. The technical equipment must comply with regulations.

· **7.2. Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool location.

· **Information about storage in one common storage facility:** *Store away from foodstuffs.*

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Protect from humidity and water.

This product is hygroscopic.

Storage temperature less than +30 °C

· **7.3 Specific end use(s)** *No further relevant information available.*

*

SECTION 8: Exposure controls/personal protection

· **8.1. Control parameters**

7664-38-2 Orthophosphoric acid 85%

IOELV Short-term value: 2 mg/m³

Long-term value: 1 mg/m³

· **DNELs** *No data available.*

· **PNECs** *No data available.*

· **Additional information:** *The SDS is legally based on documents effective at the release thereof.*

· **8.2 Exposure controls**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Set up eyewash and safety showers are close to the workstation.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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 goggles

· Body protection: Protective work clothing**· Limitation and supervision of exposure into the environment**

Follow conditions of handling and storage.

Areas provide against leakage into waterways, soil and drainage.

SECTION 9: Physical and chemical properties

· 9.1. Information on basic physical and chemical properties**· Appearance:****Form:**

Fluid

Colour:

Colourless

· Odour:

Odourless

· Odour threshold:

Not determined.

· pH-value:

Acidic

· Change in condition**Melting point/freezing point:**

Undetermined.

Initial boiling point and boiling range:

Undetermined.

· Flash point:

Not applicable.

· Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Autoignition temperature: 1010 °C

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:**Lower:**

Not explosive

Upper:

Not explosive

· Vapour pressure at 20 °C:

23 hPa

· Density at 20 °C:1.4 g/cm³**· Relative gas density**

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient: n-octanol/water:

Not determined.

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- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <ul style="list-style-type: none"> · Viscosity: <li style="padding-left: 20px;">Dynamic: <li style="padding-left: 20px;">Oxidising properties: | <p>Not determined.</p> <p>No data available.</p> |
| <ul style="list-style-type: none"> · Solvent content: <li style="padding-left: 20px;">Organic solvents: · 9.2 Other information | <p>0.0 %</p> <p>No further relevant information available.</p> |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Under normal conditions stable.
- **10.2. Chemical stability** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
 - Reacts with metals forming hydrogen.
 - Reacts with alkali (lyes).
 - When diluting, always add acid to water, never vice versa.
- **10.4 Conditions to avoid** Strong heating.
- **10.5 Incompatible materials**
 - metals
 - metallic oxides
 - metal alloys
 - organic peroxides
 - strong bases
- **10.6 Hazardous decomposition products**
 - Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 - In case of fire:
 - Phosphorus oxides (e.g. P₂O₅)
 - Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**
- Harmful if swallowed.

- **a) Acute toxicity**

7664-38-2 Orthophosphoric acid 85%

Oral	LD50	1530 mg/kg (rat)
Dermal	LD50	2740 mg/kg (rabbit)

- **b) Skin corrosion/irritation**
 - Causes severe skin burns and eye damage.
- **c) Serious eye damage/irritation**
 - Causes serious eye damage.
- **d) Respiratory or skin sensitization** Based on available data, the classification criteria are not met.
- **e) Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **f) Carcinogenicity** Based on available data, the classification criteria are not met.
- **g) Reproductive toxicity** Based on available data, the classification criteria are not met.
- **h) STOT-single exposure** Based on available data, the classification criteria are not met.
- **i) STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **j) Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2. Potential acute health effects**

After swallowing:

Harmful if swallowed.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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- **After eye contact:**
Highly corrosive effects.
Contact with eyes may cause blindness.
- **After skin contact:** Highly corrosive effects.
- **After inhalation:** May cause respiratory irritation.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7664-38-2 Orthophosphoric acid 85%

EC50	270 mg/l (bacteria) (activated sludge)
LC50/96 h	138 mg/l (fish) <i>Gambusia affinis</i>

- **12.2 Persistence and degradability** Moderately /partly biodegradable
- **12.3 Bioaccumulative potential** Bioaccumulation is unlikely.
- **12.4 Mobility in soil** Mobile in the aquatic environment.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment** Does not meet the criteria for inclusion.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 12.6. Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1. Waste treatment methods**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Prevent waste formation or provide waste reduction to minimum if possible.
Disposal operations within accordance with local and national regulations.
Disposal of product by chemical detoxification.
Control of pH is necessary.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1805
- **14.2 UN proper shipping name**
- **ADR** 1805 PHOSPHORIC ACID, SOLUTION, mixture
- **IMDG, IATA** PHOSPHORIC ACID, SOLUTION mixture

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· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**

· **Class** 8 Corrosive substances.
· **Label** 8

· **14.4 Packing group**· **ADR, IMDG, IATA** III· **14.5 Environmental hazards**· **Marine pollutant:** None.· **14.6 Special precautions for user**· **Danger code (Kemler):** Warning: Corrosive substances.· **EMS Number:** 80· **Segregation groups** F-A,S-B· **Stowage Category** Acids· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **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

· **Transport category** 3· **Tunnel restriction code** E· **IMDG**· **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

· **UN "Model Regulation":**

UN1805, PHOSPHORIC ACID, SOLUTION, mixture, 8, III

* **SECTION 15: Regulatory information**· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

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*H314 Causes severe skin burns and eye damage.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.***· 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**ADR: Accord européen sur le transport 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 Harmonised System of Classification and Labelling of Chemicals**ELINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Met. Corr.1: Corrosive to metals – Category 1**Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*