

Safety Data Sheet

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Version: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: pHixer
Product Code: 31260120DA

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

Recommended Use: Water treatment chemical
Restricted to professional users
Uses Advised Against: Consumer use.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Everris International BV
Nijverheidsweg 1-5; 6422 PD Heerlen (NL)
Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

For further information, please contact

INFO-MSDS@EVERRIS.COM

1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008

2.2. Label elements

Product Identifier:



Signal Word:

Danger

Hazard Statements:

H314 - Causes severe skin burns and eye damage
Contains: Phosphoric acid, Alcohols C6-C12 ethoxylated

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

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

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Ingredients	EC-No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Phosphoric acid	231-633-2	7664-38-2	10 - 25%	Skin Corr. 1B (H314)	no data available
Alcohols, C6-12, ethoxylated	NE	68439-45-2	5 - 10%	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	Exempt

Full text of H- and EUH-phrases: see section 16**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures**

General Advice:	First aid measures should be executed by trained personnel only.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms:** None under normal processing**4.3. Indication of any immediate medical attention and special treatment needed****Notes to Physician:** None under normal processing.**Section 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:** powder.

Unsuitable extinguishing media:

Water. High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.

For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow product to enter the environment uncontrolled.

6.3. Methods and material for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep at temperatures between 0 °C and 40 °C. Keep containers tightly closed in a cool, well-ventilated place.

LGK (Germany)

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Packaging Materials:

Store in original container.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<i>Phosphoric acid</i>	
European Union	TWA 1 mg/m ³ STEL 2 mg/m ³
Austria	STEL 2 mg/m ³ TWA: 1 mg/m ³
Belgium - 8 Hr TWA	1 mg/m ³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	1.0 mg/m ³ TWA
Croatia - Occupational Exposure Limits - STELs (KGVIs)	2 mg/m ³ STEL [KGVl]
Czech Republic OEL	1 mg/m ³ TWA
Denmark	TWA: 1 mg/m ³
Greece - OEL	1 mg/m ³ TWA
Iceland - OEL - 8 Hour	1 mg/m ³ TWA
Japan - TWAs	1 mg/m ³ OEL
Finland	TWA: 1 mg/m ³ STEL: 2 mg/m ³

France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.5 ppm STEL: 2 mg/m ³
German mak	TWA: 2 mg/m ³ Ceiling / Peak: 4 mg/m ³
Hungary - Occupational Exposure Limits - TWAs	1 mg/m ³ TWA
Italy OEL Data - Time Weighted Average (TWA):	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Ireland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	1 mg/m ³ TWA
Netherlands National MAC Data - Time Weighted Average (TWA):	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³ TWA
Norway	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Poland	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Portugal	STEL: 3 mg/m ³ TWA: 1 mg/m ³
Romania - Occupational Exposure Limits - TWAs	1 mg/m ³ TWA
Spain OEL - Time Weighted Average (TWA):	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Sweden - OEL - 8 Hour	1 mg/m ³ LLV
Switzerland	STEL: 2 mg/m ³ TWA: 1 mg/m ³
UK oes/mel:	STEL: 2 mg/m ³ TWA: 1 mg/m ³

Derived No Effect Level (DNEL)

No data available

Predicted No Effect Concentration (PNEC)

No data available.

8.2. Exposure controls

Engineering Measures to Reduce Exposure: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection: Tightly fitting safety goggles
 Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.
 Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.
 Skin and Body Protection: Lightweight protective clothing
 Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical State:	liquid
Color:	red brown.
Odor:	Not significant
pH:	1 - 3
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	no data available
Flash Point:	no data available
Evaporation Rate:	no data available
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	no data available

Vapor Density:	no data available
Specific Gravity:	no data available
Water Solubility:	not applicable
Solubility(ies)	no data available
Partition Coefficient:	not applicable
Autoignition Temperature:	not applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information

Density:	1135 - 1155 kg/m ³
Bulk density:	no data available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions**Hazardous Decomposition Products:**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Possibility of Hazardous Reactions:

None under normal processing.

10.4. Conditions to avoid

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

10.5. Incompatible materials**10.6. Hazardous decomposition products**

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute Toxicity****Product Information:**

Inhalation:	The product causes burns of eyes, skin and mucous membranes.
Eye Contact:	Causes serious eye damage.
Skin Contact:	Causes severe skin burns and eye damage.
Ingestion:	Ingestion causes burns of the upper digestive and respiratory tracts.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h

Skin Corrosion or Irritation

See also section 3.

Serious Eye Damage or Eye Irritation

See also section 3.

Sensitization

See also section 3.

Mutagenic effects

See also section 3.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive Toxicity**Teratogenicity**

No data available.

STOT - Single Exposure

No known effects under normal use conditions.

STOT - Repeated Exposure

None under normal use conditions.

Aspiration Hazard

No data available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Do not allow product to enter the environment uncontrolled.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

not applicable

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Do not re-use empty containers. Dispose of as unused product.

Other Information:

Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG

14.1

UN-No: 1805

14.2

Proper shipping name: Phosphoric acid Solution

14.3

Hazard Class: 8

14.4

Packing group: III

14.5

Marine Pollutant: Not regulated

Environmental Hazard: Not regulated

14.6

EmS: F-A; S-B

Special Provisions: None

14.7

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not regulated

ADR/RID

14.1

UN-No: 1805

14.2

Proper shipping name: Phosphoric acid Solution

14.3

Hazard Class: 8

14.4	
Packing group:	III
14.5	
Environmental Hazard	Not regulated
14.6	
Special Provisions	None
Tunnel restriction code	E
Limited Quantity	5 L
Environmental Hazard	Not regulated
Environmental Hazard	Not regulated

IATA

14.1	
UN-No:	1805
14.2	
Proper shipping name:	Phosphoric acid Solution
14.3	
Hazard Class:	8
14.4	
Packing group:	III
14.5	
Environmental Hazard	Not regulated
14.6	
Special Provisions	None

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France**

ICPE (FR): Not regulated

*Belgium**Germany*

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

LGK (Germany) 13

Water Endangering Class (WGK): 1 (Everris classification)

Component	German WGK Section
Phosphoric acid 7664-38-2 (10 - 25%)	class 1

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

15.2. Chemical safety assessment

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: 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 Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PNEC: Predicted No Effect Concentration
DNEL: Derived No-Effect Level
Reach: Registration, Evaluation, authorization of Chemicals
CLP: EU-GHS; Classification, Labelling and Packaging
OEL: Occupational Exposure Limit
TWA: Time Weighted Average
ATE: Acute Toxicity Estimate
EUH statement: CLP (EU) specific hazard statement.

Classification procedure:

- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010
Regulation (EC) No 1272/2008

Prepared by:

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet