

Safety Data Sheet

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Version: 1

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

1.1. Product identifier

Product Name

NupHix

Product Code:

31480320GB

Pure substance/mixture

Mixture.

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 [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International B.V. 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 (CLP)

Classification according Regulation (EC) 1272/2008 [CLP]

Skin Corrosion or Irritation	Category 2 - (H315)
Eye Irritation	Category 1 - (H318)

2.2. Label elements

Classification according Regulation (EC) 1272/2008 [CLP]



Signal Word: Danger

Hazard Statements:

H315 - Causes skin irritation

H318 - Causes serious eye damage

Contains: Phosphoric acid, Alcohols C6-C12 ethoxylated

Precautionary Statements:

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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 or doctor/physician

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Phosphoric acid	231-633-2	7664-38-2	10 - 25%	Skin Corr. 1B (H314)	01-2119485924-24
Alcohols, C6-12, ethoxylated	614-481-5	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	If not breathing, give artificial respiration. If symptoms persist, call a physician. If fumes from reactions are inhaled, move to fresh air immediately.
Skin Contact:	If skin irritation persists, call a physician.
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
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.

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

None under normal processing

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

None under normal processing.

Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media**

<i>Suitable Extinguishing Media:</i>	Powder(s).
<i>Unsuitable Extinguishing Media:</i>	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

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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 material to contaminate ground water system.

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 3 °C and 30 °C. Keep containers tightly closed in a cool, well-ventilated place.

Packaging Materials:

LGK (Germany)

Store in original container.

13

7.3. Specific end use(s)

Specific use(s)

Exposure scenario

Read and follow label instructions; www.everris.com
Mixture. Not required.

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
Australia	1 mg/m ³ TWA
Belgium - 8 Hr TWA	1 mg/m ³ TWA
Bulgaria - OEL- TWAs	1.0 mg/m ³ TWA
Croatia - OEL - STELs (KGVIs)	2 mg/m ³ STEL [KGV]
Czech Republic OEL	1 mg/m ³ TWA
Denmark	TWA: 1 mg/m ³
Estonia - OEL - STELs	2 mg/m ³ STEL (vapor)
Finland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
FR - OEL - 8h VMEs	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.5 ppm STEL: 2 mg/m ³
Greece OEL 15 minute	3 mg/m ³ STEL
Hungary - OEL - TWAs	1 mg/m ³ TWA
Iceland - OEL - 8 Hour	1 mg/m ³ TWA
Indonesia - OEL - STELs (PSDs)	3 mg/m ³ STEL
Italy OEL Data - TWA:	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Ireland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Japan	1 mg/m ³ OEL
Korea - ISHA - OEL - TWAs	1 mg/m ³ TWA (Serial No. 489)
Latvia - OEL - TWAs	1 mg/m ³ TWA
Malaysia	1 mg/m ³ TWA
NL MAC - TWA:	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Norway	TWA: 1 mg/m ³ STEL: 2 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 - OEL - TWAs	1 mg/m ³ TWA
Slovenia - OEL - TWAs	1 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Singapore - OEL:PELs	1 mg/m ³ PEL
Switzerland	STEL: 2 mg/m ³ TWA: 1 mg/m ³

Derived No Effect Level (DNEL)**Predicted No Effect Concentration (PNEC)**

No data available

8.2. Exposure controls**Personal protective equipment****Eye/Face Protection**

Wear eye/face protection

Hand protection

Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection

Not required; except in case of aerosol formation. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

Skin and body protection:

Lightweight protective clothing

Hygiene Measures:

When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

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

Liquid

Color:

red, brown.

Odor:

None

pH:

1 - 3

Density:1135 - 1155 kg/m³**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):

Not flammable

Vapor Pressure:

no data available.

Vapour density

no data available.

Relative density

No data available

Water Solubility:

No data available

Solubility(ies)

No data available

Partition Coefficient:

Not applied.

Autoignition Temperature:

No data available

Decomposition temperature:

No data available

Explosive Properties:

Doesn't present explosion hazard.

9.2. Other information**VOC Content (%):**

no data available.

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Product Information**

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Causes serious eye damage.
Skin Contact	Causes skin irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects

None known

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
Alcohols, C6-12, ethoxylated	1100 mg/kg	>2000 mg/kg	

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Serious eye damage/eye irritation	Classification based on individual ingredients of the mixture.
Respiratory or skin sensitization	Classification based on individual ingredients of the mixture.
Germ Cell Mutagenicity	Classification based on individual ingredients of the mixture.
Carcinogenicity	Classification based on individual ingredients of the mixture.
Reproductive Toxicity	Classification based on individual ingredients of the mixture.
STOT - Single Exposure	Classification based on individual ingredients of the mixture.
STOT - Repeated Exposure	Classification based on individual ingredients of the mixture.
Aspiration Hazard	Classification based on individual ingredients of the mixture.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecotoxicity

Should not be released into the environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Phosphoric acid	-	3 - 3.5: 96 h Gambusia affinis mg/L LC50	-	4.6: 12 h Daphnia magna mg/L EC50

12.2. Persistence and degradability**Persistence and Degradability:**

No persistent or cumulative effects were observed.

12.3. Bioaccumulative potential**Bioaccumulation:**

Does not bioaccumulate.

12.4. Mobility in soil

No data available.

12.5. PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

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 reuse container.

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

Limited Quantity

5 L

14.5**Marine Pollutant:**

Not regulated

Environmental Hazard

Not regulated

14.6**EmS:**

F-A; S-B

Special Provisions

None

14.7**Bulk transport according Annex II of MARPOL and IBC Code** No data available**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

Belgium**Denmark**

Denmark No data available

France

ICPE Not regulated

Germany

LGK (Germany) 13
 Water Endangering Class (WGK): 1 (Everris classification)
 Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Phosphoric acid 7664-38-2 (10 - 25%)	class 1
Alcohols, C6-12, ethoxylated 68439-45-2 (5 - 10%)	class 2

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- None

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 phrase: CLP (EU) specific hazard statement
LD50: Lethal dose, 50%.
LC50: Lethal concentration, 50%.
SVHC: Substance of Very High Concern.

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. 2015/830. Regulation (EC) No 1272/2008 (CLP).

Prepared by

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Restricted to professional users

Reason for revision

*** Indicates changes since the last revision. This version replaces all previous versions

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