Safety Data Sheet

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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

Suitable Extinguishing Media: Powder(s).

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

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: Store in original container.

LGK (Germany) 13

7.3. Specific end use(s)

Specific use(s) Read and follow label instructions; www.everris.com

Exposure scenario Mixture. Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Phosphoric acid	
European Union	TWA 1 mg/m³ STEL 2 mg/m³
Austria	STEL 2 mg/m³ TWA: 1 mg/m³
Australia	1 mg/m³ TWA
Belgium - 8 Hr TWA	1 mg/m³ TWA
Bulgaria - OEL- TWAs	1.0 mg/m³ TWA
Croatia - OEL - STELs (KGVIs)	2 mg/m³ STEL [KGVI]
Czech Republic OEL	1 mg/m³ TWA
Denmark	TWA: 1 mg/m³
Estonia - OEL - STELs	2 mg/m³ STEL (vapor)
Finland	TWA: 1 mg/m³ STEL: 2 mg/m³
FR - OEL - 8h VMEs	TWA: 0.2 ppm TWA: 1 mg/m³ STEL: 0.5 ppm STEL: 2 mg/m³
greece OEL 15 minute	3 mg/m³ STEL
Hungary - OEL - TWAs	1 mg/m³ TWA
Iceland - OEL - 8 Hour	1 mg/m³ TWA
Indonesia - OEL - STELs (PSDs)	3 mg/m³ STEL
Italy OEL Data - TWA:	TWA: 1 mg/m³ STEL: 2 mg/m³
Ireland	TWA: 1 mg/m³ STEL: 2 mg/m³
Japan	1 mg/m³ OEL
Korea - ISHA - OEL - TWAs	1 mg/m³ TWA (Serial No. 489)
Latvia - OEL - TWAs	1 mg/m³ TWA
Malaysia	1 mg/m³ TWA
NL MAC - TWA:	STEL: 2 mg/m³ TWA: 1 mg/m³
Norway	TWA: 1 mg/m³ STEL: 2 mg/m³
Poland	STEL: 2 mg/m³ TWA: 1 mg/m³
Portugal	STEL: 3 mg/m³

	TWA: 1 mg/m³
Romania - OEL - TWAs	1 mg/m³ TWA
Slovenia - OEL - TWAs	1 mg/m³ TWA
Spain - Valores Limite Ambientales - VLE	STEL: 2 mg/m³ TWA: 1 mg/m³
Singapore - OEL:PELs	1 mg/m³ PEL
Switzerland	STEL: 2 mg/m³ TWA: 1 mg/m³

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 derivates 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/m³ (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	Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)
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