Safety Data Sheet

Issue Date 02-Nov-2015 **Revision Date** 03-Dec-2018 **Version:** 1

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

1.1. Product identifier

Product Name:	**NupHix**
Product Code:	**31480320GA**
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

Manufacturer

Everris International BVNijverheidsweg 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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corrosion or Irritation	Category 1 - (H314)

2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Signal Word:

Danger

Hazard Statements:

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

Precautionary Statements:

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

Chemical Name	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)	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 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) 13

Packaging Materials: Store in original container.

7.3. Specific end use(s)

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

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 - Occupational Exposure Limits - TWAs	1.0 mg/m³ TWA
Croatia - Occupational Exposure Limits - STELs (KGVIs)	2 mg/m³ STEL [KGVI]
Czech Republic OEL	1 mg/m³ TWA
Denmark	TWA: 1 mg/m³
Estonia - Occupational Exposure Limits - STELs	2 mg/m³ STEL (vapor)
Finland	TWA: 1 mg/m³ STEL: 2 mg/m³
France - Occupational Exposure Limits - 8 Hour 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 - Occupational Exposure Limits - TWAs	1 mg/m³ TWA
Iceland - OEL - 8 Hour	1 mg/m³ TWA
Indonesia - Occupational Exposure Limits - STELs (PSDs)	3 mg/m³ STEL
Italy OEL Data - Time Weighted Average (TWA):	TWA: 1 mg/m³ STEL: 2 mg/m³
Ireland	TWA: 1 mg/m³ STEL: 2 mg/m³
Japan - TWAs	1 mg/m³ OEL
Korea - ISHA - Occupational Exposure Limits - TWAs	1 mg/m³ TWA (Serial No. 481)
Latvia - Occupational Exposure Limits - TWAs	1 mg/m³ TWA
Malaysia - Occupational Exposure Limits - TWAs	1 mg/m³ TWA
Netherlands National MAC Data - Time Weighted Average (TWA):	STEL: 2 mg/m³ TWA: 1 mg/m³
Norway	TWA: 1 mg/m³ STEL: 1 mg/m³

Poland	STEL: 2 mg/m³ TWA: 1 mg/m³
Portugal	STEL: 3 mg/m³ TWA: 1 mg/m³
Romania - Occupational Exposure Limits - TWAs	1 mg/m³ TWA
Slovenia - Occupational Exposure Limits - TWAs	1 mg/m³ TWA
Spain OEL - Time Weighted Average (TWA):	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).

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 applied
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. Based on data of ingredients.

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 bags 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

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

Product Information .

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact May cause slight irritation.

Skin Contact May cause irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects:
Symptoms: No information available
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

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:
None known

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 Do not allow product to enter the environment uncontrolled.

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 data available.

12.3. Bioaccumulative potential
Bioaccumulation: No data available.

12.4. Mobility in soil
Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment No data available.

12.6. Other adverse effects
Mobility: 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	
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

Belgium

Denmark

Danish Sikkerhedsgruppe	No data available

France

ICPE	Not regulated

Germany

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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 Directive 98/24/EC on the protection of the health and safety of workers from the 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.
Prepared by	Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)
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