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

1.1. Product identifier

Trade name

Phosphoric acid 75% (1a338) preservatives (feed)

Registration no.

EC No.: 231-633-2

REACH-Registration no. 01-2119485924-24-XXXX

CAS No. 7664-38-2 Index no. 015-011-00-6

UFI

UFI: XJE0-90R7-8005-KDQS Use of the substance/mixture

feed additive

1.3. Details of the supplier of the safety data sheet

Address Indufarm N.V.

Leon Bekaertstraat 5

8770 Ingelmunster - Belgium

Tel.: +3251624245 contact@indufarm.com www.indufarm.com

1.4. Emergency telephone number

National poisoning information center (NVIC) +31 (0) 88 755 8000 Only for the purpose of informing medical personnel in case of acute intoxications.

Only for the purpose of informing medical personnel in case of acute intoxications.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290 Acute Tox. 4 H302 Skin Corr. 1B H314

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements

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P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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.

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

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

Hazardous component(s) to be indicated on label

contains phosphoric acid ... %

Further supplemental information

Restricted to professional users

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients (Regulation (EC) No. 1272/2008)

Phosphoric acid

CAS No. 7664-38-2 EINECS no. 231-633-2

Registration no. 01-2119485924-24-XXXX

Concentration appr. 75 %

 Met. Corr. 1
 H290

 Acute Tox. 4
 H302

 Skin Corr. 1B
 H314

Concentration limits (Regulation (EC) No. 1272/2008)

 Skin Corr. 1B
 H314
 >= 25

 Eye Irrit. 2
 H319
 >= 10 < 25</td>

 Skin Irrit. 2
 H315
 >= 10 < 25</td>

 oral
 500
 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

cATpE

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

After skin contact

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor

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immediately.

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

Causes burns.

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

Hints for the physician / treatment

Keep under medical supervision for at least 48 hours.

Hints for the physician / hazards

Risk of pneumonia; Risk of stomach perforation

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Water spray jet, Dry powder, Foam, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Reactions with metals, with evolution of hydrogen. In the event of fire the following can be released: Phosphorus oxides (e.g. P2O5); Phosphorus trihydride (phosphine)

5.3. Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Neutralization agent use. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed. Handle and open container with care. Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). When diluting, always stir product into water.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor. Keep only in original packaging.

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Do not store together with: Alkalis, Reducing agents, Metals

Storage class according to TRGS 510 8B Non-combustible corrosive hazardous

substances

Keep container tightly closed and in a well-ventilated place. Protect from heat/overheating.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

phosphoric acid ... %

List Arrêté royal...

Long term exposure limit 1 mg/m³

Short term exposure limit 2 mg/m³

phosphoric acid ... %

List IOELV Type IOELV

Long term exposure limit 1 mg/m³
Short term exposure limit 2 mg/m³

Derived No/Minimal Effect Levels (DNEL/DMEL)

Phosphoric acid

DNEL

Conditions Worker Long term inhalative Local effects
Concentration 1 mg/m³

DNEL

Conditions General Long term inhalative Local effects

Population

Concentration 0,36 mg/m³

DNEL

Conditions Worker Acute inhalative Local effects

Concentration 2 mg/m³

DNFI

Conditions Worker Long term inhalative Systemic effects

mg/l

DNEL

Concentration

Conditions General Long term oral Systemic effects

Population

10,7

Concentration 0,1 mg/kg

DNEL

Conditions General Long term inhalative Systemic effects

Population

Concentration 4.57

8.2. Exposure controls

General protective and hygiene measures

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep seperated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on

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personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. 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. Short term: filter apparatus, combination filter E-P2; Short term: filter apparatus, combination filter B-P2

Hand protection

Appropriate Material Chloroprene

Material thickness >= 0,6 mm Breakthrough time >= 480 min

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state liquid colourless Odour odourless

Melting point/freezing point

Value appr. -18 °C

Initial boiling point and boiling range

Value appr. 135 °C

Flammability (solid, gas)

Not ignitable

Upper/lower flammability or explosive limits

Remarks Not applicable

Flash point

Remarks Not applicable

Auto-ignition temperature

Remarks Not applicable

Decomposition temperature

Remarks No data available

pH value

Value < 1

Concentration/H2O 23 g/l Temperature 20 °C

Viscosity

Remarks No data available

Solubility(ies)

Medium Water

Remarks Completely miscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Vapour pressure

Date revised: 16.01.2023 Phosphoric acid 75% (1a338) preservatives (feed) # 1008563 Version: 10 / BE Master No. M-035 Print date: 19-2-2024 Value 0,04 hPa Temperature 20 °C **Density** Value 1.58 g/cm³ 20 °C Temperature Vapour density Value 3.4 9.2. Other information **Odour threshold** No data available Remarks **Evaporation rate** Remarks No data available **Explosive properties**

SECTION 10: Stability and reactivity

10.1. Reactivity

Remarks

Oxidising properties evaluation

see Possibility of hazardous reactions

10.2. Chemical stability

No decomposition if used as prescribed.

10.3. Possibility of hazardous reactions

Corrosive to metals. Reactions with reducing agents. Reactions with alkalies. Reactions with metals, with evolution of hydrogen.

2000

mg/kg

This product is not potentially explosive.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat. Protect from light.

not oxidizing

10.5. Incompatible materials

Reducing agents, metals, Alkalis

10.6. Hazardous decomposition products

Phosphorus oxides (e.g. P2O5), Hydrogen

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (Components)

Phosphoric acid

 Species
 rat

 LD50
 >= 300

 Method
 OECD 423

Species rat

NOAEL 250 mg/kg

Acute dermal toxicity (Components)

Phosphoric acid

Species rabbit

LD50 2740 mg/kg

Acute inhalative toxicity (Components)

Phosphoric acid

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No information available.

Skin corrosion/irritation

evaluation corrosive

Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

evaluation strongly corrosive

Sensitization (Components)

Phosphoric acid

not investigadet - substance is corrosive

Mutagenicity (Components)

Phosphoric acid

Based on available data, the classification criteria are not met.

Reproduction toxicity (Components)

Phosphoric acid

Based on available data, the classification criteria are not met.

Carcinogenicity (Components)

Phosphoric acid

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

May cause respiratory irritation.

Repeated exposure

No data available

Aspiration hazard

No information available.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

Phosphoric acid

Species Gambusia affinis

LC50 138 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)

Duration of exposure

Phosphoric acid

Species Daphnia magna

EC50 > 100 mg/l

48

Method OECD 202

Remarks Static system

Species Daphnia magna

NOEC 56 mg/l

Duration of exposure 48 h

Method OECD 202

h

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Algae toxicity (Components)

Phosphoric acid

Species Desmodesmus subspicatus

EC50 > 100 mg/l

Duration of exposure 72 h

Method OECD 201
Remarks Static system

Species Desmodesmus subspicatus

NOEC 100 mg/l

Duration of exposure 72 h

Method OECD 201

Bacteria toxicity (Components)

Phosphoric acid

Species activated sludge

EC50 270 mg/l

12.2. Persistence and degradability

Biodegradability (Components)

Phosphoric acid

Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

Remarks Not applicable

12.4. Mobility in soil

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment

General information

No valuation for anorganic substances necessary.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Behaviour in environment compartments

Harmful effect due to pH shift. Can contribute to eutrophication of waters.

Behaviour in sewers [waste treatment plants]

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Do not allow to enter drains or water courses.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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SECTION 14: Transport information

OLOTION 14. ITAIIS	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1805	1805	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	Ш	III	III
Label		8	8
14.5. Environmental hazards	-	-	-
Limited Quantity	51	51	
Transport category	3		
Tunnel restriction code	E		
Hazard id. no.	80		
EmS		F-A, S-B	

Information for all modes of transport

14.6. Special precautions for user

No information available.

Other information

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC-Content according to directive 2010/75/EU

VOC (EU) 0 %

Classification according to Betriebssicherheitsverordnung (BetrSichV)

not applicable

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

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listed

Registration status

Phosphoric acid

AICS (Australian Inventory

of Chemical Substances)

DSL (Canada) listed
IECSC (China) listed
EINECS listed
ENCS (Japan) listed
ECL (Korea) listed
PICCS (Philippines) listed
TSCA (USA) listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Met. Corr. 1 H290 On basis of test data
Acute Tox. 4 H302 Calculation method
Skin Corr. 1B H314 Calculation method

Hazard statements listed in Chapter 2/3

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

CLP categories listed in Chapter 2/3

Acute Tox. 4 Acute toxicity, Category 4

Met. Corr. 1 Substance or mixture corrosive to metals, Category 1

Skin Corr. 1B Skin corrosion, Category 1B

Abbreviations

AC: Article Category

ACGIH: American Conference of Governmental Industrial Hygienists

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

AGW: Arbeitsplatzgrenzwert

AICS: Australian Inventory of Chemical Substances

AOX: adsorbable organically bound halogens

ARW: Arbeitsplatzrichtwert (Germany)

ASTM: American Society for Testing And Materials

ATE: acute toxicity estimates

ATP: Adaptation to technical and scientific progress

AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany)

BAR: Biologischer Arbeitsstoff-Referenzwert

BCF: bioconcentration factor

BetrSichV: Betriebssicherheitsverordnung (Germany)

BG: Berufsgenossenschaft (Germany)

BGW: Biologischer Grenzwert BLW: Biologischer Leitwert

BOD: biochemical oxygen demand

CAS: Chemical Abstracts Service

cATpE: converted acute toxicity point estimate CEA: Comité Européen des Assurances CEFIC: European Chemical Industry Council

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CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques

ChemG: Chemikaliengesetz (Germany) CMR: Cancerogen Mutagen Reprotoxic

COD: chemical oxygen demand

DFG: Deutsche Forschungsgemeinschaft

DIN: german industry standard DMEL: Derived minimal effect level DNEL: Derived no effect level DOC: dissolved organic carbon

DSL: Canada Domestic Substances List

EAK: Europäischer Abfallkatalog EbC: inhibitory concentration of growth

EC: effective concentration EC: European Community

ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals

ECHA: European Chemicals Agency EEC: European Economic Community EG: Europäische Gemeinschaft

EH40: List of approved workplace exposure limits

EINECS: European Inventory of Existing Commercial Chemical Substances

EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe

EL: effect level

ELINCS: European List of Notified Chemical Substances

EmS: Emergency Schedules EN: european standards

ENCS: Japanese Existing and New Chemical Substances Inventory

ERC: Environmental Release Category ErC: inhibitory concentration of the growth rate

EU: European Union

EWG: Europäische Wirtschaftsgemeinschaft

FDA: Food and Drug Administration

FMVSS: National Highway Traffic Safety Administration

GefStoffV: Gefahrstoffverordnung GGVSee: Gefahrgutverordnung See

GHS: Globally Harmonized System of classification and Labelling of Chemicals

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC: Intermediate Bulk Container IC: inhibitory concentration

ICAO: International Civil Aviation Organization

IECSC: Chinese Chemical Inventory of Existing Chemical Substances

IMDG: International Maritime Code for Dangerous Goods

IMO: International Maritime Organization

INCI: International Nomenclature of Cosmetic Ingredients IRPTC: International Register of Potentially Toxic Chemicals

ISO: International Organization for Standardization

IUCLID: International Uniform Chemical Information Database

Cat: category

KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)

KECI: Korea Existing Chemicals Inventory

LC: Lethal concentration

LD: Lethal dose LDLo: lethal dose low LGK: storage category

LL: Lethal level

LLC: Lowest lethal concentration

LOAEL: Lowest observed adverse effect level LOEC: Lowest observed effect concentration

LOEL: Lowest observed effect level

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Log pow: logarithm of the distribution coefficient n-octanol / water

LQ: limited quantity

MAC: Maximale aanvaarde concentratie (Netherlands)

MAK: Maximale Arbeitsplatz-Konzentration

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978 (MARPOL: Marine Pollution)

MEL: Maximum exposure limits

MITI: Ministry of International Trade and Industry (Japan)

n.a.g.: nicht anders genannt

NATEC: Naval Air Technical Data and Engineering Service Command

NLP: No-longer Polymer

NOAEC: No observed adverse effect concentration

NOAEL: no observable adverse effect level NOEC: No observable effect concentration

NOEL: No observable effect level

NOELR: no observable effect loading rate NZIOC: New Zealand Inventory of Chemicals

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational exposure limit OELV: Occupational exposure limit value OES: Occupational exposure standards PBT: Persistent, Bioaccumulative and Toxic

PC: Product Category

PEC: Predicted environmental concentration

PICCS: Philippine Inventory of Chemicals and Chemical Substances

PNEC: predicted no effect concentration PNEC: Predicted no effect concentration pOW: Octanol-water partition coefficient

PROC: Process Category

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

RTECS: Registry of Toxic Effects of Chemical Substances

SAE: Society of Automotive Engineers

STP: Sewage treatment plant

SU: Sector of Use

SUVA: Schweizerische Unfallversicherungsanstalt

SVHC: Substances of very high concern

TA Luft: Technische Anleitung zur Reinhaltung der Luft

ThOD: theoretical oxygen demand TRA: targeted risk assessment

TRG: Technische Regeln Druckgase (Germany)

TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)

TRGS: Technische Regeln für Gefahrstoffe

TRK: Technische Richtkonzentration

TSCA: Toxic Substances Control Act (USA)

UN: United Nations

VbF: Verordnung über brennbare Flüssigkeiten VCI: Verband der Chemischen Industrie e.V.

VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.

VDI: Verein Deutscher Ingenieure

VLEP: Valeurs Limites d'exposition Professionnelle

VOC: Volatile Organic Compound

vPvB: Very persistent and very bioaccumulative

VwVwS: Verwaltungsvorschrift wassergefärdende Stoffe

WEL: Workplace exposure limit WGK: water hazard class (Germany) WHO: World Health Organization

WoE: Weight of Evidence



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Relevant changes compared with the previous version of the safety data sheet are marked with: *** The information contained in this safety data sheet is based on our current knowledge and experience and describes the product in terms of safety requirements only. This safety data sheet is neither a Certificate of Analysis (CoA) nor a technical data sheet and must not be confused with a specification agreement and does not have the meaning of warranties of characteristics.

Uses mentioned in this safety data sheet are for general information and do not constitute a contractual agreement on a corresponding nature of the product or on a suitability for intended uses. It is the responsibility of the recipient of the product to ensure that any property rights and existing laws and regulations are observed.