

MATERIAL SAFETY DATA SHEET

(Basis: Commission Regulation (EU) No 2020/878 of 18 June 2020, amending the REACH Regulation (EC) No. 1907/2006)

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Adiuware pH
UFI: TS00-V0W2-M00J-0UPW

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

Relevant identified uses: Adjuvant, wetting & adhesive agent, conditioner in a form of concentrate used as co-formulant in plant protection products

Uses advised against: not defined

1.3. Details of the supplier of the safety data sheet.

Producer: SMP Agro Sp. z o.o.
Postal address: Komorniki 44, 63-004 Tulce
Person responsible for MSDS: biuro@smp.agro.pl

1.4. Emergency telephone number

International emergency number: 112
Fire department: 998
Emergency service: 999

Section 2. Hazards identification

2.1. Classification of the substance or mixture.

Classification in accordance with the Regulation (EC) No. 1272/2008 [CLP/GHS]:

Skin Irrit. 2; H315
Eye Dam. 1; H318

2.2. Label elements

Hazardous ingredients: Alcohols C13-branched, ethoxylated 6-20 TE [CAS: 69011-36-5]

GHS pictograms:



Signal Word:

Danger

Hazard Statement:

H315 Causes skin irritation

H318: Causes serious eye damage.

Precautionary Statement:

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

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

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/doctor/

2.3. Other hazards.

Annex XIII Regulation REACH – Criteria for identifying persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB) substances – not applicable

Substances with endocrine disrupting properties (in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100, Commission Regulation (EU) 2018/605) – not applicable

Section 3: Composition/information on ingredients.

3.1. Substances

Not relevant.

3.2. Mixtures

Hazardous ingredients

Name of a product/ingredient	Identifiers	Concentration [%]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
Citric acid, monohydrate	EC: 201-069-1 CAS: 5949-29-1 Index No.: - REACH No.: 01-2119457026-42-XXXX	15÷20	Eye Irrit. 2; H319
Alcohols C13-branched, ethoxylated 6-20 TE	EC: Polymer CAS: 69011-36-5 Index No.: - REACH No.: not applicable - in accordance with art. 2, point 9	15÷20	Skin Irrit. 2; H315 Eye Dam. 1, H318

See Section 16 for the full text of H-phrases

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Section 4: First aid measures

4.1. Description of first aid .

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if easy to do so. In case of irritation, get medical advice. Continue rinsing for at least 10 minutes.

Inhalation: Move exposed person to fresh air. Keep person warm and at rest. If disturbing symptoms occur, provide medical assistance.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Ingestion: Clean mouth with water. If the injured person is conscious, give him water to drink. Seek medical advice

Protection of first aid personnel: No action shall be taken involving any personal risk or without suitable training.

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

Skin irritation. Possible flushing, skin redness and pain
Causes serious eye damage.

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

No further relevant information available.
Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media.

Suitable extinguishing media: Foam, carbon dioxide, dry extinguishing agents, water mist. Use extinguishing agents adapted to the surrounding conditions.

Unsuitable extinguishing media: Full water jet

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture: None

Hazardous thermal decomposition products: Carbon oxides may be formed during combustion.

5.3. Special protective actions for fire-fighters

Containers in fire area cooled with water spray, if it is possible to remove the danger zone. In the event of a fire in a confined space should wear protective clothing and breathing apparatus with compressed air.
Do not allow fire-fighting water run-off into surface water, groundwater and sewer.

Section 6: Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Notify the appropriate service. Reduce access to the area of failure until the relevant cleaning operations have been completed.

For emergency responders: Seal damaged packages. Avoid direct contact with the released substance. Use personal protective equipment (see section 8).

6.2. Environmental precautions

Prevent the product from ending up in sewage and ground water. Prevent further leaking and enclose the leaking space and remove into closed containers. Flush the contaminated surface with water.

6.3. Methods and material for containment and cleaning

Prevent leakage. Absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). The contaminated material is placed in properly labeled containers for disposal in accordance with applicable regulations.

6.4. Reference to other sections

Refer to protective measures listed in section 8.
Refer to disposal considerations listed in section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective equipment: Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breath vapour and mist. Use only with adequate ventilation. Avoid release to the environment.

Advice on general occupational hygiene:

Do not eat, drink or smoke while using the product. Wash your hands after using the product. Remove contaminated clothing and protective equipment from entering food areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original packaging in a dry, cool and well-ventilated place.
Store away from incompatible materials (see section 10).
Avoid direct sunlight. Store locked up. Do not store together with alkaline materials and oxidizing agents.
Store only in properly labeled packages.
Opened containers must be protected against product leakage.

7.3. Specific end use(s)

See section 1.2. - no additional recommendations

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure standards for occupational hazards in accordance with the Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 1286, as amended)

Occupational exposure limit values: None

DNEL value: None

PNEC value: None

8.2. Exposure controls

Engineering controls:

Use adequate ventilation. Follow the basic principles of occupational health and safety: wash hands during breaks and after working with the product, immediately take off contaminated clothing and wash it before reuse; do not eat, drink or smoke while handling the product. Provide eyewash stations nearby.

Individual protection measures, such as personal protective equipment:

Eye protection: If there is a risk of eye contact, use safety glasses or a face mask (in accordance with EN166)

Skin protection:

Hands:

Appropriate chemical resistant gloves (EN-PN 374:2005)
Recommended material: nitrile rubber
Thickness: >0,4mm
Time of penetration: >480min.
The selection of suitable gloves does not only depend on the material, but also on the brand and quality resulting from differences in manufacturers. Resistance of the material, the glove can be determined after the tests. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

Other:

Depending on the task being performed, protective clothing appropriate to the potential risk should be used and approved by a competent person before starting work.

Respiratory Protection: In conditions of insufficient ventilation, masks with an appropriately selected filter should be used.

Thermal hazards: Not applicable.

Environmental exposure controls Prevent the spread in the environment and enter drains and watercourses.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Liquid

Colour: Red

<u>Odour:</u>	Characteristic
<u>Odour threshold:</u>	No date available
<u>pH:</u>	No date available
<u>Melting point/ melting range:</u>	No date available
<u>Boiling point/ boiling range:</u>	No date available
<u>Flash point:</u>	No date available
<u>Evaporation rate:</u>	No date available
<u>Flammability:</u>	Not applicable
<u>Lower explosion limits:</u>	No date available
<u>Upper explosion limits:</u>	No date available
<u>Vapour pressure:</u>	Not determined
<u>Relative density:</u>	No date available
<u>Density:</u>	No date available
<u>Subility in solvents:</u>	Freely soluble in cold water.
<u>N-octanol/water partition coefficient:</u>	No date available
<u>Auto-ignition temperature:</u>	No date available
<u>Decomposition temperature:</u>	No date available
<u>Viscosity:</u>	No date available
<u>Explosive properties</u>	No date available
<u>Oxidising properties</u>	No date available

9.2. Other information

None

Section 10: Stability and reactivity

10.1. Reactivity

The product is not reactive

10.2. Chemical stability

Product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

No date available.

10.5. Incompatible materials

Strong oxidants. Alkaline materials

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Thermal decomposition: Carbon dioxide and partial decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Based on the available data, the classification criteria are not met

Citric acid, monohydrate
LD50 oral, rat: 11700mg/kg
LD50 oral, mouse: 5040mg/kg
LD50 dermal, rat: 885mg/kg
LD50 dermal, mouse: 961mg/kg
Alcohols C13-branched, ethoxylated 6-20 TE
LD50 oral, rat: 500 – 2000mg/kg

Skin corrosion/irritation: **Causes skin irritation**

Serious eye damage/irritation: **Causes serious eye damage.**

Respiratory or skin sensitization: Based on the available data, the classification criteria are not met

Germ cell mutagenicity: Based on the available data, the classification criteria are not met

Carcinogenicity: Based on the available data, the classification criteria are not met

Reproductive toxicity: Based on the available data, the classification criteria are not met

STOT-single exposure: Based on the available data, the classification criteria are not met

STOT-repeated exposure: Based on the available data, the classification criteria are not met

Aspiration hazard: Based on the available data, the classification criteria are not met

Information on possible exposure routes:

Eye contact: Causes serious eye damage

Inhalation: May cause respiratory irritation.

Skin contact: Skin irritation.

Ingestion: May cause mouth, throat and stomach irritation.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Not known

Section 12: Ecological information

12.1. Toxicity

Mixture not classified as dangerous for the environment.

Citric acid, monohydrate
Fish (Carassius auratus) LC50: 440-706mg/l, 96h

12.2. Persistence and degradability

For mixture: no information available

Citric acid, monohydrate
Easily biodegradable: > 98% within 2 days
Chemical Oxygen Demand (COD): 728mg O2/g
Biological Oxygen Demand (BOD): 526mg O2/g
Alcohols C13-branched, ethoxylated 6-20 TE

Easily biodegradable: 90,1% within 28 days

12.3. Bioaccumulative potential.

For mixture: no information available

12.4. Mobility in soil

Soil/water
coefficient (K_{oc}): No information available

Mobility: No information available

12.5. Results of PBT and vPvB assessment

PBT: No substance

vPvB: No substance

12.6. Other adverse effects

Not known undesirable effects or critical hazards

Section 13: Disposal Considerations

13.1. Waste treatment methods

Product:

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Container:

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Empty container should be recycled. Incineration and landfilling should be considered only if there are no possibilities for recycling.

Special precautions: This material and its container must be disposed of in a safe way. Be careful in handling empty containers that were not cleansed or rinsed. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives

Section 14. Transport information.

ADR/RID/IMDG/IATA:

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the registration, evaluation, authorization and restriction of chemicals (REACH), as amended.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Regulation of the European Parliament and of the Council of 16 December 2008 No. 1272/2008 (CLP), as amended.

Act of February 25, 2011 on chemical substances and their mixtures (consolidated text: Journal of Laws 2020, item 2289).

Act of May 28, 2020 amending the Act on chemical substances and their mixtures and certain other acts (Journal of Laws of 2020, item 1337)

Act of December 14, 2012 on waste (consolidated text: Journal of Laws of 2021, items 779, 784).

Act of June 13, 2013 on packaging and packaging waste management (consolidated text: Journal of Laws 2020, items 1114, 2361).

Regulation of the Minister of Climate of January 2, 2020 on the waste catalog (Journal of Laws 2020, item 10).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives.

Announcement of the Marshal of the Sejm of the Republic of Poland of December 20, 2019 on the announcement of the uniform text of the Act on the transport of dangerous goods (Journal of Laws of 2020, item 154)

ADR Agreement 2021 - Government declaration of February 15, 2021 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on September 30, 1957 (Journal of Laws . 2021 item 874)

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 1286, as amended)

Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical factors in the workplace (consolidated text: Journal of Laws of 2016, item 1488)

Regulation of the Minister of the Environment of December 9, 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, item 2141).

15.2. Chemical safety assessment

No chemical safety assessments.

- List of substances subject to authorization (REACH; Annex XIV): Not applicable

- Candidate list of SVHCs: Not applicable

- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (REACH; Annex XVII): Not applicable

Section 16: Other Information

Abbreviations and acronyms, list of relevant hazard statements used in the safety data sheet:

Eye Dam. 1 – Serious eyes damage, Category 1

Eye Irrit. 2 – Eye irritation, Category 2

Skin Irrit. 2 – Skin irritation, Category 2

DNEL – derived no-effect level

PNEC – predicted no effect concentration

LD50 – lethal dose, 50%

LC50 – lethal concentration, 50%

PBT – Persistent, Bioaccumulative and Toxic

vPvB – very Persistent and very Bioaccumulative

ADR – International Carriage of Dangerous Goods by Road

RID – International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods

IATA – Safe Transport of Dangerous Goods by Air

Hazard Statements:

H315	:	Causes skin irritation
H318	:	Causes serious eyes damage
H319	:	Causes serious eye irritation

Classification procedure:

Skin Irrit. 2; H315	:	Calculation method
Eye Dam. 1, H318	:	Calculation method

Changes to the previous version:

Section: 2,3,9,11,12,14: change of entry in accordance with Reg. 2020/878

Section: 15: amendment of regulations

Training:

Before working with the product is recommended safety training of employees in connection with the occurrence of workplace chemicals. Documentation should be prepared and employees should be familiarized with the results of risk assessment in the workplace associated with the presence of chemical agents.

Notice to Reader

The information above has been drawn up based on the current state of knowledge and present EU and national laws. This product cannot be used for other purposes than those enumerated in Section 1 without prior written permission. In all cases, the user is obliged to follow all rules and regulations. The aim of the Material Safety Data Sheet is to describe all safety and warning requirements for our product. It is not to be considered a guarantee of the product's properties.