

# **SAFETY DATA SHEET**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**Jadex Plus** 

Revision date 08-Dec-2022 Version 1 Supersedes Date: 08-Dec-2022 Product Code(s)
HRB05070-44

**Print Date** 08-Dec-2022 SFPC307 9511924

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

1.1. Product identifier

### **Jadex Plus**

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Herbicide; Professional use Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> ADAMA Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale READING RG7 4SA

Tel: 01635 860555 Fax: 01635 861555

For further information, please contact

E-mail address ukenquiries@adama.com

1.4. Emergency telephone number

**Emergency Telephone** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

<u> </u>	· 4
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)

#### 2.2. Label elements

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

Contains Chlormequat-chloride

### Hazard pictograms



Signal word Warning

**Hazard statements** H302 - Harmful if swallowed

H312 - Harmful in contact with skin

P102 - Keep out of reach of children **Precautionary Statements** 

P270 - Do not eat, drink or smoke when using this product

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

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

P501 - Dispose of contents/ container to an approved waste disposal plant

EUH401 - To avoid risks to human health and the environment, comply with the instructions **EU Specific Hazard Statements** 

for use

**Additional phrases for PPP** SP1 - Do not contaminate water with the product or its container (Do not clean application

equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

None known. **Endocrine Disruptor Information** 

**Persistent Organic Pollutants** Not applicable.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Chlormequat-chloride	999-81-5	213-666-4	007-003-00-6	60 - 66	Acute Tox. 4 (H302) Acute Tox. 4 (H312)			No data available

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

Full text of H- and EUH-phrases: see section 16

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). First aider: Pay attention to self-protection.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a doctor.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a doctor.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Consult a doctor if necessary.

**Ingestion** Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.

**Self-protection of the first aider**Use personal protective equipment as required.

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

Symptoms None known.

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

**Note to doctors**Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. **Environmental precautions** 

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Take up mechanically, placing in appropriate containers for disposal. Methods for cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

**Exposure Limits** 

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

(PNEC)

No information available. No information available.

8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact

> (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Skin and body protection Use suitable protective clothing and equipment if required, such as safety goggles certified

to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water

repellent woven coverall with 65% polyester and 35 % cotton.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Property Values Method Remarks

Appearance
Physical state : liquid

Colour : transparent; light Ivory

Odour : None

Odour threshold: No data availablepH: 6.8 - 7.4CIPAC MT 75solution (1%)

Melting point / freezing point °C : No data available
Boiling point / boiling range °C : No data available
Flash point °C : No data available
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable

Upper/lower flammability or : No data available explosive limits

Vapour pressurekPa: No data availableVapour density: No data availableRelative density: 1.12 - 1.16Solubility(ies)mg/l: No data available

Partition coefficient Log Pow : See Section 12 for additional Ecological Information

Autoignition temperature °C : > 410 EEC A.15

**Decomposition temperature** °C : No data available

**Kinematic viscosity** mm2/s 40 °C : 6.3 OECD 114 **Surface tension** : 72.1 OECD A.5

Particle Size : Not applicable

9.2. Other information

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes
Explosive properties : Not an explosive
Oxidising properties : Not oxidizing

9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

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

### Acute toxicity

	<u>Values</u>	Species	<u>Method</u>	Remarks
Oral LD50 mg/kg	: 300 - 2000	Rat	OECD 420	
Dermal LD50 mg/kg	: 964 - 1621	Rabbit		
Inhalation LC50 mg/l	: > 2.51	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	<ul> <li>Not irritating to eyes</li> </ul>	Rabbit	OECD 405	
Sensitisation	: Not a skin sensitiser	Guinea pig	OECD 406	

**Chronic toxicity** 

Germ cell mutagenicity

**Chemical name** 

Chlormequat-chloride : Not classified

Carcinogenicity

Chemical name

Chlormequat-chloride : Not Carcinogenic

Reproductive toxicity .

Chemical name

Chlormequat-chloride : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Chlormequat-chloride : No data available

**STOT - Repeated Exposure** 

Chemical name

Chlormequat-chloride : No data available

Aspiration hazard Chemical name

Chlormequat-chloride : No data available

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### 11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

<u>Acute toxicity</u> <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : >100 Oncorhynchus mykiss
Crustacea 48-hour EC50 mg/l : 31.7 Daphnia magna
Algae 72-hour EC50 mg/l : >100 P. subcapitata
Other plants EC50 mg/l : >100 Lemna gibba

Chronic aquatic toxicity Values Species Method Remarks

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

Chlormequat-chloride : 441 Coturnix japonica

Bees Oral LD50 µg/bee

**Chemical name** 

Chlormequat-chloride : > 80.2

12.2. Persistence and degradability

Abiotic Degradation Water DT50 days Chemical name

Chlormequat-chloride : 6.6

Soil DT50 days Chemical name

Chlormequat-chloride : 27.5 20° C

Biodegradation Chemical name

Chlormequat-chloride : Readily biodegradable

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical name

Chlormequat-chloride : - 3.5

**Bioconcentration factor (BCF)** 

**Chemical name** 

Chlormequat-chloride : ----

12.4. Mobility in soil

20 °C

Adsorption/Desorption Values Method Remarks

Chemical name

Chlormequat-chloride : 132 **KOC** 

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

#### 12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

#### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other information Waste codes should be assigned by the user based on the application for which the product

was used.

# **SECTION 14: Transport information**

products

14.1 UN number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazard Not Applicable

14.6 Special Precautions for Users

**Special Provisions** None

RID

14.1 UN number Not regulated

14.2

Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated **Environmental hazard** Not Applicable **Special Precautions for Users** 

14.5 Environmental hazard Not Applicable

14.6 Special Precautions for Users

**Special Provisions** None

**IMDG** 

14.1 UN number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazard Not Applicable

14.6 Special Precautions for Users

14.5 Marine pollutant

Not applicable

14.6 Special Precautions for Users

**Special Provisions** None No information available 14.7 Maritime transport in bulk No information available according to IMO instruments

IATA

14.1 UN number Not regulated

14.2

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazard
 Not regulated
 Not Applicable

14.6 Special Precautions for Users

Special Provisions None

# **SECTION 15: Regulatory information**

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

Trade name / designation Registration Number(s) Date

Not Applicable Not Applicable Not Applicable

### **European Union**

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

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

#### 15.2. Chemical safety assessment

Chemical Safety Report A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009

# **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Revision date 08-Dec-2022

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#### Reason for revision

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

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

Classification of the mixture
H302 - Harmful if swallowed
H312 - Harmful in contact with skin

Classification procedure
Classification based on test data
Classification based on test data

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**