



# SAFETY DATA SHEET

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

## Padawan

Revision date 19-Jan-2023

Version 1.01 Supersedes Date: 26-Apr-2022

Product Code(s)

HRB05039-44

Print Date 19-Jan-2023

SFPE04

9511931

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

### 1.1. Product identifier

## Padawan

#### 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

Supplier 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]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 2 - (H411)
Corrosive to metals	Category 1 - (H290)

### 2.2. Label elements

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

Contains Ethephon

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H315 - Causes skin irritation  
 H318 - Causes serious eye damage  
 H411 - Toxic to aquatic life with long lasting effects  
 H290 - May be corrosive to metals

### Precautionary Statements

P102 - Keep out of reach of children  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P390 - Absorb spillage to prevent material damage  
 P501 - Dispose of contents/ container to an approved waste disposal plant

### EU Specific Hazard Statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions 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.

#### Endocrine Disruptor Information

None known.

#### 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
Ethephon	16672-87-0	240-718-3	015-154-00-4	37 - 42	Acute Tox. 3 (H311) Acute Tox. 4 (H332)			No data available

					Acute Tox. 4 (H302) Skin Corr. 1C (H314) Aquatic Chronic 2 (H411) EUH071			
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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

<b>General advice</b>	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.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a doctor.
<b>Eye contact</b>	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. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a doctor if necessary.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

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

<b>Symptoms</b>	None known.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	No information available.
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### 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.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

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

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

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

### 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. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

### 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** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	United Kingdom
Propylene Glycol 57-55-6	TWA: 150 ppm TWA: 474 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> STEL: 450 ppm STEL: 1422 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** 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

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing.

#### 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
<b>Appearance</b>			
Physical state	: liquid		
Colour	: clear yellow		
Odour	: Slight		
Odour threshold	: No data available		
pH	: 1.7 - 2.0	CIPAC MT 75.3	@ 20.8 °C; 1 %
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: ----		aqueous solution
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or explosive limits	: No data available		
Vapour pressure kPa	: No data available		
Vapour density	: No data available		

A.3

Relative density	: 1.19 - 1.23		approx 20° C
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: 454	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm <sup>2</sup> /s 40 °C	: 5900	OECD 114	
Surface tension	: No data available		
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 Exposure to air or moisture over prolonged periods.

**10.5. Incompatible materials**

Incompatible materials Oxidising agent. Strong acids. Strong bases.

**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>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 401	

<b>Dermal LD50 mg/kg</b>	:	> 2000	Rat	OECD 402	
<b>Inhalation LC50 mg/l</b>	:	> 5			ATEmix
<b>Skin corrosion/irritation</b>	:	Irritating to skin	Rabbit	OECD 404	
<b>Serious eye damage/eye irritation</b>	:	Causes serious eye damage	Rabbit	OECD 405	
<b>Sensitisation</b>	:	Not a skin sensitiser	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity****Chemical name**

Ethephon : Not classified

**Carcinogenicity****Chemical name**

Ethephon : Not Carcinogenic

**Reproductive toxicity****Chemical name**

Ethephon : Not toxic for the reproductive system

**STOT - Single Exposure****Chemical name**

Ethephon : No data available

**STOT - Repeated Exposure****Chemical name**

Ethephon : No data available

**Aspiration hazard****Chemical name**

Ethephon : No data available

**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>
<b>Fish 96-hour LC50 mg/l</b>	: > 100	Oncorhynchus mykiss	OECD 203	
<b>Crustacea 48-hour EC50 mg/l</b>	: > 100	Daphnia magna	OECD 202	
<b>Algae 72-hour EC50 mg/l</b>	: > 68	D. Subspicatus	OECD 201	
<b>Other plants EC50 mg/l</b>	: > 100	Lemna gibba	OECD 221	
<u>Chronic aquatic toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Fish NOEC mg/l</b>	: No data available			
<b>Crustacea NOEC mg/l</b>	: No data available			
<b>Algae NOEC mg/l</b>	: No data available			
<b>Other plants NOEC mg/l</b>	: No data available			

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical name**

Ethephon : 1212 Bobwhite quail

**Bees Oral LD50 µg/bee****Chemical name**

Ethephon : > 100

**12.2. Persistence and degradability****Abiotic Degradation****Water DT50 days****Chemical name**

Ethephon : 1.51

**Soil DT50 days****Chemical name**

Ethephon : 9.18 RAPID

**Biodegradation****Chemical name**

Ethephon : Not readily biodegradable

**12.3. Bioaccumulative potential****Partition Coefficient****(n-octanol/water) Log Pow****Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Ethephon	: -1.89		pH 7

**Bioconcentration factor (BCF)****Chemical name**

Ethephon : ----

**12.4. Mobility in soil****Adsorption/Desorption****Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Ethephon	: No information available		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**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste from residues/unused products**

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****ADR**



<b>14.1 UN number</b>	UN3265
<b>14.2 UN proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon)
<b>14.3 Transport hazard class(es)</b>	8
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon), 8, III, (E), Environmentally Hazardous
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274
<b>Classification code</b>	C3
<b>Tunnel restriction code</b>	(E)

**RID**

<b>14.1 UN number</b>	UN3265
<b>14.2 UN proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon)
<b>14.3 Transport hazard class(es)</b>	8
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon), 8, III, Environmentally Hazardous
<b>Environmental hazard</b>	Yes
<b>Special Precautions for Users</b>	
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274
<b>Classification code</b>	C3

**IMDG**

<b>14.1 UN number</b>	UN3265
<b>14.2 UN proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon)
<b>14.3 Transport hazard class(es)</b>	8
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon), 8, III, (0°C C.C.), Marine pollutant
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>14.5 Marine pollutant</b>	P
<b>Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	223, 274
<b>EmS-No</b>	F-A, S-B
<b>IMDG Stowage and segregation</b>	Category A SW2
<b>15486</b>	SGG1 SG36 SG49 No information available
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**IATA**

<b>14.1 UN number</b>	UN3265
<b>14.2 UN proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon)
<b>14.3 Transport hazard class(es)</b>	8
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethephon), 8, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	A3, A803
<b>ERG Code</b>	8L



## 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  
 H311 - Toxic in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H332 - Harmful if inhaled  
 H411 - Toxic to aquatic life with long lasting effects

#### 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 19-Jan-2023

Reason for revision SDS sections updated

**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  
EC 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**

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H411 - Toxic to aquatic life with long lasting effects

**Classification procedure**

Classification based on test data  
Classification based on test data  
Classification based on Calculation method

**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**