



## SAFETY DATA SHEET

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

### Stemper

Revision date 06-Aug-2024

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Product Code(s)

HRB00836-44/2

Print Date 06-Aug-2024

ADM.09050.H.1.A (AG-T3-175 EC-1)

39370

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

#### 1.1. Product identifier

### Stemper

#### Other means of identification

Pure substance/mixture Mixture

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

Recommended use Growth regulator; 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**

Republic of Ireland: National Poisons Information Centre, Beaumont Hospital:  
Tel: 01 809 2166 or 01 837 9964 (8am - 10pm 7 days a week) or  
the UK National Chemical Emergency Centre on  
Tel: +44 (0)1865 407333 (24 hours, 7 days a week)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Skin sensitisation</b>	Category 1 - (H317)

Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements

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

Contains Trinexapac-ethyl

### Hazard pictograms



Signal word

Warning

### Hazard statements

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H411 - Toxic to aquatic life with long lasting effects

### 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 soap and 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  
 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	Specific concentration limit (SCL)	M-Factor	REACH Registration Number

					(EC) No. 1272/2008 [CLP]			
Alcohol C13-iso, ethoxylated	9043-30-5	-		15-20	Acute Tox. 4 (H302) Eye Dam. 1 (H318)			02-211949244 7-27-0000
Trinexapac-ethyl	95266-40-3	-	607-752-00-4	15-20	STOT RE 2 (H373) (GI tract) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410)		M = 1	No data available
Dodecylbenzene Sulphonic Acid - Isopropylamine Salt	84961-74-0	284-664-9		9-12	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)			01-211998516 3-33-0002
Propylene carbonate	108-32-7	203-572-1	607-194-00-1	7-12	Eye Irrit. 2 (H319)			01-211953723 2-48-0001

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>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	May cause sensitisation in susceptible persons. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the 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** Product is or contains a sensitisier. May cause sensitisation by skin contact.

### **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. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. 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. Avoid contact with skin, eyes or clothing.

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

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
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### 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

<b>Derived No Effect Level (DNEL)</b>	No information available.
<b>Predicted No Effect Concentration (PNEC)</b>	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. 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

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
<b>Physical state</b>	: Liquid		
<b>Colour</b>	: amber		
<b>Odour</b>	: Aromatic		
<b>Odour threshold</b>	: No data available		
<b>pH</b>	: 3.2 - 4.2	CIPAC MT 75.3	solution (1%)
<b>Melting point / freezing point °C</b>	: No data available		
<b>Boiling point / boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: >150	ASTM D7094/D93	
<b>Evaporation rate</b>	: No data available		

<b>Flammability (solid, gas)</b>	:	Not applicable	
<b>Upper/lower flammability or explosive limits</b>	:	No data available	
<b>Vapour pressure kPa</b>	:	No data available	
<b>Vapour density</b>	:	No data available	
<b>Relative density</b>	:	0.98 - 1.021	CIPAC MT 3.1
<b>Solubility(ies) mg/l</b>	:	No data available	
<b>Partition coefficient Log Pow</b>	:		
<b>Autoignition temperature °C</b>	:	374	EEC A.15
<b>Decomposition temperature °C</b>	:	No data available	
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	:	15.2	ASTM D7094/D93
<b>Surface tension</b>	:	No data available	
<b>Particle Size</b>	:	Not applicable	

See Section 12 for additional Ecological Information

## 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** Strong acids. Strong bases. Strong oxidising agents.

### 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 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l	: ----			No data available
Skin corrosion/irritation	: Irritating to skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	
Sensitisation	: Skin sensitiser	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity**

Chemical name  
Trinexapac-ethyl : Not classified

**Carcinogenicity**

Chemical name  
Trinexapac-ethyl : Not Carcinogenic

**Reproductive toxicity**

Chemical name  
Trinexapac-ethyl : Not toxic for the reproductive system

**STOT - Single Exposure**

Chemical name  
Trinexapac-ethyl : No data available

**STOT - Repeated Exposure**

Chemical name  
Trinexapac-ethyl : H373 - May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

Chemical name  
Trinexapac-ethyl : No data available

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**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	: 24	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: 15	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 74.4	P. subcapitata	OECD 201	
Other plants EC50 mg/l	: 78	Lemna gibba	OECD 221	days 7

**Chronic aquatic toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: 6.25	Mysidopsis bahia		

Algae NOEC mg/l	:	22	Anabaena flos-aquae	OECD 201
Other plants NOEC mg/l	:	5.30	Myriophyllum spicatum	OECD 221
<b>Terrestrial Toxicity</b>				
Birds Oral LD50 mg/kg				
Chemical name				
Trinexapac-ethyl	:	> 2000	Mallard duck	EPA-FIFRA 71-1
Bees Oral LD50 µg/bee				
Chemical name				
Trinexapac-ethyl	:	> 83		OECD 213, 214

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

Chemical name

Trinexapac-ethyl : 4.2

**Soil DT50 days**

Chemical name

Trinexapac-ethyl : 1

**Biodegradation**

Chemical name

Trinexapac-ethyl : Not readily biodegradable

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

Chemical name

Trinexapac-ethyl : -0.27

**Values****Method****Remarks**

OECD 107, 117

**Bioconcentration factor (BCF)**

Chemical name

Trinexapac-ethyl : 6

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

Chemical name

Trinexapac-ethyl : ----

**Values****Method****Remarks**

No data available

**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

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M6

### RID

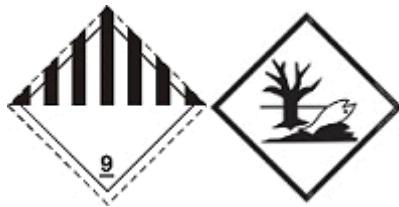
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl), 9, III
Environmental hazard	Yes
Special Precautions for Users	
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 375, 601
Classification code	M6

### IMDG

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl), 9, III, Marine pollutant
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
14.5 Marine pollutant	P
Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 969
EmS-No	F-A, S-F
IMDG Stowage and segregation	Category A No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

### IATA

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A97, A158, A197
ERG Code	9L



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## 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
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## 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  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H373 - May cause damage to organs through prolonged or repeated exposure  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

#### Legend

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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** 06-Aug-2024

**Reason for revision** Section 12

**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	<b>Classification procedure</b>
H317 - May cause an allergic skin reaction	Classification based on test data
H319 - Causes serious eye irritation	Classification based on test data
H373 - May cause damage to organs through prolonged or repeated exposure	Classification based on test data
H411 - Toxic to aquatic life with long lasting effects	Classification based on Calculation method

**Classification procedure**

Classification based on test data

Classification based on test data

Classification based on test data

Classification based on Calculation method

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**