

## **SAFETY DATA SHEET**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

Stemper

Revision date 06-Aug-2024 Version 1.01 Supersedes Date: 06-May-2024

Product Code(s) HRB05527-44

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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

<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 UK: National Chemical Emergency Centre:

Tel: 01856 407333 (24 hours, 7 days a week)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Skin corrosion/irritation	Category 2 - (H315)			
Serious eye damage/eye irritation	Category 2 - (H319)			
Skin sensitisation	Category 1 - (H317)			
Chronic aquatic toxicity	Category 2 - (H411)			

## 2.2. Label elements

## Labelling according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Contains Trinexapac-ethyl

### Hazard pictograms



Signal word Warning

H315 - Causes skin irritation **Hazard statements** 

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

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

**EU Specific Hazard Statements** 

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	3 ***	Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567	concentration limit (SCL)	M-Factor	REACH Registration Number
Alcohol C13-iso,	9043-30-5	-		15-20	Acute Tox. 4			02-211949244

ethoxylated					(H302) Eye Dam. 1 (H318)	7-27-0000
Trinexapac-ethyl	95266-40-3	-		15-20	Skin Sens. 1B (H317) Aquatic Chronic 1 (H410)	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)	01-21199851 3-33-0002
Propylene carbonate	108-32-7	203-572-1	607-194-00-1	7-12	Eye Irrit. 2 (H319)	01-21195372 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

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. Get medical

attention immediately if symptoms occur.

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. If symptoms persist, call a doctor.

**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

## **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

Product is or contains a sensitiser. 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

**Storage Conditions** 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** 

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 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>	Remarks
Appearance			
Physical state	: Liquid		
Colour	: amber		
Odour	: Aromatic		
Odour threshold	: No data available		
pH	: 3.2 - 4.2	CIPAC MT 75.3	solution (1%)
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: >150	ASTM D7094/D93	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or explosive limits	: No data available		
•	: No data available		
Vapour pressure kPa			
Vapour density	: No data available	CIPAC MT 3.1	

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See Section 12 for additional Ecological Information

ASTM D7094/D93

Relative density : 0.98 - 1.021

Solubility(ies) mg/l : No data available

Partition coefficient Log Pow : No data available

Autoignition temperature °C : 374 EEC A.15

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

Kinematic viscosity mm2/s 40 °C : 15.2

Surface tension: No data availableParticle 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** 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

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No data available

Rat **OECD 402** Dermal LD50 mg/kg > 2000

Inhalation LC50 mg/l 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

Carcinogenicity

Reproductive toxicity .

**STOT - Single Exposure** 

**STOT - Repeated Exposure** 

**Aspiration hazard** 

### 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

**Acute toxicity** Values Species Method Remarks Oncorhynchus mykiss OECD 203 Fish 96-hour LC50 mg/l

24 Crustacea 48-hour EC50 mg/l Daphnia magna **OECD 202** : 15 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 Values Species Method Remarks No data available

Fish NOEC mg/l

Crustacea NOEC mg/l 6.25 Mysidopsis bahia

Algae NOEC mg/l 22 Anabaena flos-aquae **OECD 201** : Myriophyllum spicatum Other plants NOEC mg/l 5.30 **OECD 221** 

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

Bees Oral LD50 µg/bee

12.2. Persistence and degradability

**Abiotic Degradation** Water DT50 days

Soil DT50 days

**Biodegradation** 

12.3. Bioaccumulative potential

Remarks

**Partition Coefficient** 

(n-octanol/water) Log Pow

**Bioconcentration factor (BCF)** 

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

12.5. Results of PBT and vPvB assessment

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

Values

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

products

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

Method

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

Environmentally hazardous substances, liquid, n.o.s. (Trinexapac-ethyl) 14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group Ш

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description

(Trinexapac-ethyl), 9, III, (-)

14.5 Environmental hazard

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M6 **Tunnel restriction code** (-)

RID

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Trinexapac-ethyl)

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Trinexapac-ethyl), 9, III

Yes

**Environmental hazard** 

**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

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**14.1 UN number** UN3082

**14.2 UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Trinexapac-ethyl)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

**Description** UN3082, Environmentally hazardous substances, 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

IMDG Stowage and segregation Category A No information available

F-A, S-F

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

IATA

EmS-No

**14.1 UN number** UN3082

**14.2 UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Trinexapac-ethyl)

14.3 Transport hazard class(es) 9
14.4 Packing group |||

**Description** UN3082, Environmentally hazardous substances, 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 91



\* 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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Trinexapac-ethyl - 95266-40-3	Use restricted. See entry 75.	

### **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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful 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 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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

### Classification of the mixture Classification procedure

H315 - Causes skin irritation

Classification based on test data
H317 - May cause an allergic skin reaction

Classification based on test data
H319 - Causes serious eye irritation

Classification based on test data

H411 - Toxic to aquatic life with long lasting effects

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**