

# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Aceta star 460 EC

Revision date 11-Aug-2022 Product Code(s) INS00094-27 Version 2 Supersedes Date: 17-Mar-2020 ADM.00152.I.2.A 9502256

Print Date 11-Aug-2022

### 1. Identification

Product identifier

## Aceta star 460 EC

Other means of identification

Acetamiprid 16 Bifenthrin 30 EC **Synonyms** 

Formulation type EC L9255 Registration Number(s) Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Insecticide

No information available Uses advised against

Detailed information about the manufacturer, supplier, and/or importer

ADAMA SOUTH AFRICA (PTY) LTD **Supplier** 

Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530

Emergency telephone number

+27 82 446 8946 (Griffon Poison Centre) **Emergency Telephone** 

+27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

# 2. Hazard(s) identification

### Classification of the substance or mixture

Aspiration hazard	Category 1 - (H304)
Acute toxicity - Oral	Category 4 - (H302)
Serious eye damage/eye irritation	Category 1 - (H318)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Flammable liquids Category 3 - (H226)

#### **Label elements**

Signal word

Danger

#### Hazard pictograms



#### **Hazard statements**

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

#### **Precautionary statements**

P102 - Keep out of reach of children

P203 - Obtain, read and follow all safety instructions before reuse

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take action to prevent static discharges

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

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

P301 + P316 - IF SWALLOWED: Get emergency medical help immediately

P303 + P361 + P353 - IF ON SKIN (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 or doctor

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P391 - Collect spillage

P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

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

#### **Additional information**

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

#### Other hazards

\_\_\_\_\_

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

# 3. Composition/information on ingredients

#### Substance

Not applicable

### **Mixture**

### **Synonyms**

### Acetamiprid 16 Bifenthrin 30 EC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Hydrocarbons, C10, aromatics, >1% naphthalene	64742-94-5	58-66	919-284-0	Asp. Tox. 1 (H304)Carc. 2 (H351)Aquatic Chronic 2 (H411)STOT SE 3 (H336)	
Cyclohexanone	108-94-1	19-24	203-631-1	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	
Bifenthrin	82657-04-3	2-4		Acute Tox. 3 (H301) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10000 M=100000
calcium dodecylbenzenesulphonate	26264-06-2	2-4	247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	
Acetamiprid	135410-20- 7	1-3	603-921-1	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	
2-Ethylhexan-1-ol	104-76-7	1-3	203-234-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	

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

### **Additional information**

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Aceta star 460EC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

### 4. First-aid measures

### Description of necessary 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 physician.

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

clothes and shoes. Consult a physician if necessary.

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. Seek

immediate medical attention/advice.

Ingestion Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms

occur.

For emergency responders

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

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

**Note to physicians** Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

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

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Flammable properties Flammable liquid

**Explosive properties**Not an explosive.

Specific/special fire-fighting measures

Specific/special fire-fighting

measures

No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

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

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

# 7. Handling and storage

#### Preventive measures for safe handling

hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. In

case of insufficient ventilation, wear suitable respiratory equipment.

Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

Store locked up. Store away from other materials.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### 8. Exposure controls/personal protection

Control parameters

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV
Cyclohexanone	STEL: 50 ppm
108-94-1	TWA: 20 ppm
	S*

Other information South Africa for Cyclohexanone, CAS. 108-94-1: OEL eight-hour TWA - 40 mg/m³,

OEL-STEL/C -100 mg/m<sup>3</sup> (SKIN)

Appropriate engineering controls

Revision date 11-Aug-2022

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

Individual protection measures, such as personal protective equipment

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

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

(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).

Eye/face protection Tight sealing safety goggles.

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.

Handle in accordance with good industrial hygiene and safety practice. General hygiene considerations

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

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Property	<u>Values</u>	<u>Method</u>	Remarks
Appearance			
Physical state	: Liquid		
Color	: yellow		
Odor	: characteristic		
Odor threshold	: No data available		
рН	: 4-8	CIPAC MT 75	1 % aqueous solution
Melting point / freezing point °C	: -		Not applicable
Boiling point / boiling range °C	: No data available		
Flash point °C	: 50	CIPAC MT 12	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	: -		Not applicable
Vapor density	: No data available		
Relative density	: 0.87 - 0.97	CIPAC MT 3	
Solubility(ies) mg/l	: -		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional
Autoignition tomporature °C	: No data available		Ecological Information
	No data available     No data available		
		OECD 114	23°C
Kinematic viscosity mm2/s 40 °C		0200 114	23 0
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available	OECD 115	2000
Surface tension	: 46.6	OECD 115	20°C
Particle Size	: Not applicable		

Other information

Bulk density g/ml : Not applicable

Page 6/12 ADAMA

# 10. Stability and reactivity

Reactivity

**Reactivity** No information available.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

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

Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid

**Conditions to avoid** Heat, flames and sparks.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

	<u>Values_</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 1098	Rat	OECD 425	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: > 2.5	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Severely irritating to eyes	Rabbit	OECD 405	
Sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity** 

Germ cell mutagenicity

Chemical name

Bifenthrin : Not classified Acetamiprid : Not classified

Carcinogenicity

Chemical name

Bifenthrin : Not classified Acetamiprid : Not Carcinogenic

Reproductive toxicity .

Chemical name

Bifenthrin : Not classified

Revision date 11-Aug-2022

: Not toxic for the reproductive system Acetamiprid

**STOT - Single Exposure** 

Chemical name

Bifenthrin : No data available Acetamiprid : No data available

**STOT - Repeated Exposure** 

Chemical name

Bifenthrin : No data available Acetamiprid : No data available

**Aspiration hazard** Chemical name

Bifenthrin No data available Acetamiprid No data available

# 12. Ecological information

### **Ecotoxicity**

**Aquatic toxicity** 

**Acute toxicity** Values Species Method Remarks

Poecilia reticulata Fish 96-hour LC50 mg/l 0.49 **OECD 203** Crustacea 48-hour EC50 mg/l 0.4 Daphnia magna **OECD 202** 0.49 Algae 72-hour EC50 mg/l S. capricornutum **OECD 201** 

Other plants EC50 mg/l No data available

Chronic aquatic toxicity <u>Values</u> 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

: 1800 **EPA-OPPTS** Bifenthrin Bobwhite quail 850.2100

Acetamiprid : 98 Mallard duck

Bees Oral LD50 µg/bee

**Chemical name** 

Bifenthrin : 0.39 OECD 213 OECD Oral

214

Acetamiprid : 14.53 Oral

**Abiotic Degradation** Water DT50 days

Chemical name

Bifenthrin : 161.1 Acetamiprid : 3.6 - 5.8

Soil DT50 days Chemical name

: 86.8 Bifenthrin

Field Field Acetamiprid : 2.9

Revision date 11-Aug-2022

Biodegradation Chemical name

Bifenthrin : No data available Acetamiprid : No data available

Log Pow <u>Values</u> <u>Method</u> <u>Remarks</u>

Chemical name

Bifenthrin : > 6.71 OECD 107 Acetamiprid : 0.80 OECD 117

**Bioconcentration factor (BCF)** 

**Chemical name** 

Bifenthrin : 417 OECD 305

Acetamiprid : ---- No bioaccumulation

potential

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u>

Chemical name

Bifenthrin : 236,610 KOC Not mobile

Acetamiprid : 71.1 - 138.4 KOC

# 13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld

containers.

# 14. Transport information

ADR

**14.1 UN number** UN1993

**14.2 UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Cyclohexanone)

14.3 Transport hazard class(es) 3 Labels 3 14.4 Packing group III

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexanone), 3, III, (D/E), Environmentally

Hazardous

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 601
Classification code F1
Tunnel restriction code (D/E)

RID

**14.1 UN number** UN1993

**14.2 UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Cyclohexanone)

14.3 Transport hazard class(es) 3 Labels 3 14.4 Packing group III

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexanone), 3, III, Environmentally

Hazardous

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

ADAMA Page 9 / 12

\_\_\_\_\_

Special Provisions 274, 601 Classification code F1

**IMDG** 

**14.1 UN number** UN1993

**14.2 UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Bifenthrin)

**14.3 Hazard Class** 3 **14.4 Packing group** III

**Description** UN1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Bifenthrin), 3, III, (50°C C.C.),

Marine pollutant

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions223, 274, 955EmS-NoF-E, S-EIMDG Stowage and segregationCategory A

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

**IATA** 

**14.1 UN number** UN1993

**14.2 UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Cyclohexanone)

14.3 Transport hazard class(es) 3 14.4 Packing group III

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Cyclohexanone), 3, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users
Special Provisions A3
ERG Code 3L



## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

## 16. Other information

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

H226 - Flammable liquid and vapor

H301 - Toxic if swallowed H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

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

Date of preparation of the SDS No data available

Revision date 11-Aug-2022

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

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

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

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

Classification of the mixture

vPvB - Very Persistent and Very Bioaccumulative

#### The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Oldoonioditori or the mixture	Ciacomoation procedure
H302 - Harmful if swallowed	Classification based on test data
H304 - May be fatal if swallowed and enters airways	Classification based on Calculation method
H318 - Causes serious eye damage	Classification based on test data
H336 - May cause drowsiness or dizziness	Classification based on Calculation method
H351 - Suspected of causing cancer	Classification based on Calculation method
H400 - Very toxic to aquatic life	Classification based on test data
H410 - Very toxic to aquatic life with long lasting effects	Classification based on Calculation method
H226 - Flammable liquid and vapor	Classification based on Calculation method

#### 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

Classification procedure

materials or in any process, unless specified in the text

End of Safety Data Sheet