

SAFETY DATA SHEET

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

Almagor

Revision date 25-Apr-2022 Version 2 Supersedes Date: 25-Jun-2019 Pro

Print Date 25-Apr-2022

Product Code(s) FNG56918-27 MCW 1086 9502077

1. Identification

Product identifier

Almagor

Other means of identification

Synonyms Prochloraz 200 Tebuconazole 100 Azoxystrobin 56 EC

Formula EC
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

Uses advised against No information available

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

Supplier ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House The Vineyards Office Estate

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2. Hazard(s) identification

Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 2 - (H361)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 4 - (H227)

Label elements

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Signal word

Warning

Hazard pictograms



Hazard statements H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child H410 - Very toxic to aquatic life with long lasting effects

H227 - Combustible liquid

Precautionary statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

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

No smoking

P243 - Take precautionary measures against static discharge

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

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

Prochloraz 200 Tebuconazole 100 Azoxystrobin 56 EC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Acetophenone	98-86-2	31-35	202-708-7	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	
Prochloraz	67747-09-5	16-20	266-994-5	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=10
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester	186817-80- 1	11-14	606-097-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	
Tebuconazole	107534-96- 3	7-11	403-640-2	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=10
Azoxystrobin	131860-33- 8	4-6	603-524-3	Acute Tox. 3 (H331) Aquatic Acute 1 (H400)	M=10 M=10

				Aquatic Chronic 1 (H410)	ATE = 0.7 mg/L (dusts/mists)
calcium dodecylbenzenesulphonate	26264-06-2	4-6	247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	
2-Ethylhexan-1-ol	104-76-7	2-4	203-234-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
2,4,6-Tris(1-phenylethyl)polyoxyethyle nated phosphates	90093-37-1	2-4		Eye Irrit. 2 (H319)	

4. First-aid measures

Description of necessary first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if 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. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

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

5. Fire-fighting measures

Suitable Extinguishing Media

surrounding environment.

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

Specific hazards arising from the chemical

Specific hazards arising from the Comb

chemical

Combustible material.

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions

Environmental precautionsSee Section 12 for additional Ecological Information.

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 Pick up and transfer to properly labeled containers.

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

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

7. Handling and storage

Preventive measures 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. Remove

contaminated clothing and shoes.

Precautions for safe handling

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear

suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV
Acetophenone	TWA: 10 ppm
98-86-2	

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Values

: Not applicable

Individual protection measures, such as personal protective equipment

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

Hand protection Wear suitable gloves.

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear

Method

suitable gloves and eye/face protection.

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance			
Physical state	: Liquid		
Color	: yellow		
Odor	: characteristic		
Odor threshold	: No data available		
рН	: 5-7	CIPAC MT 75	solution (1%)
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	:		No data available
Flash point °C	: 92	CIPAC MT 12	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		
Vapor density	: No data available		
Relative density	: 1.047 - 1.147	OECD 109	201 °C
Solubility(ies) mg/l	:		
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	:		
Decomposition temperature °C	:		
Kinematic viscosity mm2/s 40 °C	: 73.2	OECD 114	20°C
Explosive properties	: Not an explosive	OPPTS 830.6316	
Oxidizing properties	: No data available		
Surface tension	:		

Other information

Particle Size

Property

Bulk density g/ml : Not applicable

10. Stability and reactivity

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Remarks

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

None known based on information supplied. Incompatible materials

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: > 2000	Rat	OECD 425	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: > 1.52	Rat		Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	
Sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

Chronic toxicity

Germ cell mutagenicity

Chemical name

Prochloraz Not classified Tebuconazole Not classified Azoxystrobin Not classified

Carcinogenicity

Chemical name

Prochloraz Not Carcinogenic Tebuconazole Not Carcinogenic Azoxystrobin Not Carcinogenic

Reproductive toxicity .

Chemical name

Prochloraz Not toxic for the reproductive system

Tebuconazole H361d - Suspected of damaging the unborn child

Azoxystrobin Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Prochloraz : Not classified Tebuconazole Not classified Azoxystrobin Not classified

STOT - Repeated Exposure

Chemical name

Prochloraz Not classified Tebuconazole Not classified Azoxystrobin Not classified

Aspiration hazard Chemical name

Prochloraz Not classified Tebuconazole Not classified Azoxystrobin Not classified

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks Fish 96-hour LC50 mg/l Poecilia reticulata **OECD 203** 0.4

Crustacea 48-hour EC50 mg/l Daphnia magna **OECD 202** 5.31 Algae 72-hour EC50 mg/l 0.83 Selenastrum **OECD 201**

capricornutum

Other plants EC50 mg/l No data available No data available

V<u>alues</u> Chronic aquatic toxicity Method Remarks Species

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

Prochloraz : 624 Bobwhite quail US EPA 71-1

Tebuconazole 1988 Bobwhite quail Azoxystrobin >2000 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical name

Prochloraz : 14.89 Apis mellifera WD 7/3, MAFF UK contact Tebuconazole 83.05 Oral

Azoxystrobin : >25

Abiotic Degradation Water DT50 days Chemical name

Prochloraz : 3.5 Tebuconazole 365

Azoxystrobin : 205 pH 6.4-7.5;20 ° C

Soil DT50 days Chemical name

Prochloraz : 223.62 Tebuconazole 34.8

Azoxystrobin 20 °C : 262

Biodegradation Chemical name

Prochloraz Not readily biodegradable OECD 301 D Tebuconazole Not readily biodegradable OECD 301B

Azoxystrobin

Log Pow Values Method Remarks Chemical name

Prochloraz EEC A.8 : 4.3

Tebuconazole 3.7

Azoxystrobin 2.7 **OECD 107** pH 5; 20 ° C

Bioconcentration factor (BCF)

Chemical name

Prochloraz : 150-247 Tebuconazole 78 Azoxystrobin

No data available

Adsorption/Desorption Values Method Remarks Chemical name

Prochloraz : 1222-8654 KOC Propanoic acid, 2-hydroxy-, 2-ethylhexyl: No information available **KOC**

ester

KOC Tebuconazole : 769 Azoxystrobin : 2.5 **KOC**

13. Disposal considerations

Disposal methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with products

environmental legislation.

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

14. Transport information

ADR

14.1 UN number

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,

Tebuconazole)

14.3 Transport hazard class(es) 9 9 Labels 14.4 Packing group Ш

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

(Prochloraz, Tebuconazole), 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. (Prochloraz,

Tebuconazole)

14.3 Transport hazard class(es) 9 Labels 9 14.4 Packing group III

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

(Prochloraz, Tebuconazole), 9, III

14.5 Environmental hazard Ye

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. (Prochloraz,

Tebuconazole)

14.3 Hazard Class 9 **14.4 Packing group** III

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

(Prochloraz, Tebuconazole), 9, III, Marine pollutant

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

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,

Tebuconazole)

Yes

14.3 Transport hazard class(es) 9

14.4 Packing group

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

(Prochloraz, Tebuconazole), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code 9L



15. Regulatory information

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

16. Other information

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

H331 - Toxic if inhaled

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 25-Apr-2022

Revision NoteChanges 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 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

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

Classification of the mixtureClassification procedureH227 - Combustible liquidClassification based on test dataH319 - Causes serious eye irritationClassification based on test data

H361 - Suspected of damaging fertility or the unborn child 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

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