

25-Apr-2022

SAFETY DATA SHEET

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

Almagor

Revision date 09-Nov-2022

Version 3 Supersedes Date:

Product Code(s) FNG56918-27 ADM.00156.F.1.A 9502077

Print Date 09-Nov-2022

1. Identification

Product identifier

Almagor

Other means of identification

Synonyms Formula	Prochloraz 200 Tebuconazole 100 Azoxystrobin 56 EC EC
Registration Number(s)	L10077
Pure substance/mixture	Mixture

Recommended use of the chemical and restrictions on use

Recommended use Uses advised against

Fungicide 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 99 Jip de Jager Drive Bellville 7530
Emergency telephone number	

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

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)

Label elements

Signal word	Warning
Hazard pictograms	
Hazard statements	H319 - Causes serious eye irritation H361d - Suspected of damaging the unborn child H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements	 P102 - Keep out of reach of children P273 - Avoid release to the environment P203 - Obtain, read and follow all safety instructions before reuse P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes 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 P337 + P317 - If eye irritation persists: Get medical help P318 - If exposed or concerned get medical advice. P391 - Collect spillage 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

<u>Mixture</u>

Synonyms

Prochloraz 200 Tebuconazole 100 Azoxystrobin 56 EC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Acetophenone	98-86-2	33-37	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)	

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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
Benzenesulfonic acid, C10-13-(linear)alkyl derivs., calcium salt	-	4-7	932-231-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
Azoxystrobin	131860-33-8	4-7	603-524-3	Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10 M=10 ATE = 0.7 mg/L (dusts/mists)
Tristyrylphenol ethoxylate phosphate ester	114535-82-9	2-5		Eye Irrit. 2 (H319)	
Poly(oxy-1,2-ethanediyl), .alpha[tris(1-phenylethyl)phenyl]om egahydroxy-	99734-09-5	2-5	-	Aquatic Chronic 3 (H412)	
2-Ethylhexan-1-ol	104-76-7	2-4	203-234-3	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	
orthophosphoric acid	7664-38-2	< 0.5	231-633-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)	

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 Almagor 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. Get medical attention immediately if symptoms occur.
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 Note to physicians Treat symptomatically. 5. Fire-fighting measures Suitable 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. Specific hazards arising from the chemical Specific hazards arising from the No information available. chemical Combustible material Flammable properties Specific/special fire-fighting measures Specific/special fire-fighting No information available. measures Special protective equipment and precautions for fire-fighters Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. fire-fighters 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 precautions** See 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 Handle in accordance with good industrial hygiene and safety practice.

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

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
Acetophenone		TWA: 10 ppm
98-86-2		
orthophosphoric acid		STEL: 3 mg/m ³
7664-38-2		TWA: 1 mg/m ³
Other information	South Africa for Phosphoric acid	CAS. no.: 7664-38-2: OEL eight-hour TWA - 2 mg/m ³ ,

OEL-STEL/C - 6 mg/m³

Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, su	ch as personal protective equipment	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
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).	
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.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	
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

Property Appearance	Values	<u>Method</u>	<u>Remarks</u>
Physical state Color Odor	: Liquid : yellow : characteristic		

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Odor threshold pH	: No data available : 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	:		
Particle Size	: Not applicable		

Other information Bulk density g/ml : Not applicable

10. Stability and reactivity

<u>Reactivity</u>			
Reactivity	No information available.		
Chemical stability			
Stability	Stable under normal conditions.		
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	None.		
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			
Incompatible materials	None known based on information supplied.		
Hazardous decomposition products			
Hazardous decomposition products None known based on information supplied.			
11. Toxicological information			

Information on toxicological effects

Acute toxicity

Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 LC50	Values : > 2000 : > 2000 : > 2000 : > 1.52	<u>Species</u> Rat Rat Rat	Method OECD 425 OECD 402	Remarks Maximum attainable concentration	
Skin corrosion/irritation Serious eye damage/eye irritation Sensitization	Non-irritating to the skinIrritating to eyesNot a skin sensitizer	Rabbit Rabbit Guinea pig	OECD 404 OECD 405 OECD 406		
Chronic toxicity					
Germ cell mutagenicity Chemical name Prochloraz Tebuconazole Azoxystrobin Carcinogenicity Chemical name Prochloraz Tebuconazole Azoxystrobin	 Not classified Not classified Not classified Not Carcinogenic Not Carcinogenic Not Carcinogenic Not Carcinogenic 				
Reproductive toxicity . Chemical name Prochloraz Tebuconazole Azoxystrobin	 Not toxic for the reproductive system H361d - Suspected of damaging the unborn child Not toxic for the reproductive system 				
STOT - Single Exposure Chemical name Prochloraz Tebuconazole Azoxystrobin STOT - Repeated Exposure Chemical name Prochloraz Tebuconazole Azoxystrobin Aspiration hazard Chemical name Prochloraz Tebuconazole	 Not classified 				
Azoxystrobin	: Not classified				

12. Ecological information

Ecotoxicity

Aquatic toxicity Acute toxicity		Values_	Species	Method	Remarks
Fish 96-hour LC50 mg/l	:	0.4	Poecilia reticulata	OECD 203	

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Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l	: 5.31 : 0.83	Daphnia magna Selenastrum capricornutum	OECD 202 OECD 201	
Other plants EC50 mg/l	: No data available	•		No data available
Chronic aquatic toxicity Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	ValuesNo data availableNo data availableNo data availableNo data availableNo data available	9	<u>Method</u>	<u>Remarks</u>
Ferrestrial Toxicity Birds Oral LD50 mg/kg Chemical name				
Prochloraz Febuconazole Azoxystrobin	: 624 : 1988 : >2000	Bobwhite quail Bobwhite quail Bobwhite quail	US EPA 71-	1
Bees Oral LD50 μg/bee Chemical name				
Prochloraz Tebuconazole Azoxystrobin	: 14.89 : 83.05 : >25	Apis mellifera	WD 7/3, MA	FF UK contact Oral
Abiotic Degradation Water DT50 days Chemical name Prochloraz Tebuconazole Azoxystrobin	: 3.5 : 365 : 205			рН 6.4-7.5 ;20 ° С
Soil DT50 days Chemical name Prochloraz	: 223.62			
Febuconazole Azoxystrobin	: 34.8 : 262			20 °C
Biodegradation Chemical name				
Prochloraz Febuconazole Azoxystrobin	: Not readily biod : Not readily biod :		OECD 301 D OECD 301B	
Log Pow Chemical name	Values		Method	<u>Remarks</u>
Prochloraz Febuconazole	: 4.3 : 3.7		EEC A.8	
Azoxystrobin	: 2.7		OECD 107	pH 5; 20 ° C
Bioconcentration factor (BCF)				
Prochloraz Febuconazole	: 150-247 : 78			
Azoxystrobin	:			No data available
Adsorption/Desorption Chemical name	<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Prochloraz Propanoic acid, 2-hydroxy-, 2-ethylho ester	: 1222-8654 exyl : No information a	available		KOC KOC

Tebuconazole	: 769	KOC
Azoxystrobin	: 2.5	KOC

13. Disposal consideration	S				
Disposal 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.				
14. Transport information					
<u>ADR</u> 14.1 UN number 14.2 UN proper shipping name	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz, Tebuconazole)				
14.3 Transport hazard class(es)	9				
Labels 14.4 Packing group Description	9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz, Tebuconazole), 9, III, (-)				
 14.5 Environmental hazard 14.6 Special Precautions for Users Special Provisions Classification code Tunnel restriction code 	Yes 274, 335, 601, 375 M6 (-)				
<u>RID</u> 14.1 UN number 14.2 UN proper shipping name	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz, Tebuconazole)				
 14.3 Transport hazard class(es) Labels 14.4 Packing group Description 	9 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,				
14.5 Environmental hazard 14.6 Special Precautions for Users Special Provisions Classification code	Tebuconazole), 9, III Yes 274, 335, 375, 601 M6				
<u>IMDG</u> 14.1 UN number 14.2 UN proper shipping name	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,				
14.3 Hazard Class 14.4 Packing group Description	Tebuconazole) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,				
 14.5 Marine pollutant Environmental hazard 14.6 Special Precautions for Users Special Provisions EmS-No 	Tebuconazole), 9, III, Marine pollutant P Yes 274, 335, 969 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

IATA 14.1 UN number	UN3082
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,
14.2 UN proper shipping name	Tebuconazole)
14.3 Transport hazard class(es)	9
,	9
14.4 Packing group	
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prochloraz,
	Tebuconazole), 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

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

- H290 May be corrosive to metals
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- 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
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H361d Suspected of damaging the unborn child
- H400 Very toxic to aquatic life
- H410 Very 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	09-Nov-2022			
Revision Note	Changes made to the la	ast version are labele	d with this sign ***.	
Key or legend to abbreviations and acronyms used in the safety data sheet				
IMDG IATA ADR	International Maritime D International Air Transp European Agreement co	ort Association (IATA		
LegendSection 8: EXPOSURE COTWATWA (time-weightCeilingMaximum limit val	ted average)	OTECTION STEL *	STEL (Short Term Exposure Limit) 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 mixture	Classification procedure
H319 - Causes serious eye irritation	Classification 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