

SAFETY DATA SHEET

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

Mulan 20 SP

Revision date 10-Aug-2022 Print Date 10-Aug-2022 Version 2 Supersedes Date:

01-May-2022

Product Code(s) INS00161-27

ADM.00150.I.1.A 9512199

1. Identification

Product identifier

Mulan 20 SP

Other means of identification

Synonyms Acetamiprid 200 SP

Formulation type SP
Registration Number(s) L9167
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Insecticide

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 99 Jip de Jager Drive

Bellville 7530

Emergency telephone number

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

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E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302)

Label elements

Signal word Warning

ADAMA Page 1/9

Hazard pictograms



Hazard statements H302 - Harmful if swallowed

Precautionary statements P102 - Keep out of reach of children

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

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

P301+317 - IF SWALLOWED: Get medical help

P330 - Rinse mouth

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 200 SP

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Acetamiprid	135410-20- 7	18-22	603-921-1	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	
Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	2-5	614-476-8	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	
Reaction product of naphthalene, propan-2-ol,sulfonated and neutralized by caustic soda	-	< 2	939-368-0	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT SE 3 (H335)	

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 Acetamiprid 200 SP 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. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.

For emergency responders

Self-protection of the first aiderUse 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

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Explosive propertiesNot an explosive.

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. Use personal protection equipment.

fire-fighters gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

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.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Avoid generation of dust. Handle in accordance with good industrial hygiene and safety

practice.

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 out of the reach

of children.

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

Appropriate engineering controls

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.

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 protectionUse 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.

No data available

Not applicable

Not applicable

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

Method **Property** Values Remarks

Appearance Physical state Solid Color white Odor Odorless

Odor threshold No data available

рΗ Melting point / freezing point °C

Boiling point / boiling range °C No data available Flash point °C No data available **Evaporation rate** No data available Flammability (solid, gas) Not flammable Upper/lower flammability or No data available

explosive limits Vapor pressure kPa

Vapor density No data available

Relative density No data available

Solubility(ies) mg/l

Not applicable Partition coefficient Log Pow

See Section 12 for additional **Ecological Information**

Autoignition temperature °C No data available Decomposition temperature °C No data available Kinematic viscosity mm2/s 40 °C: Not applicable **Explosive properties** Not an explosive **Oxidizing properties** Not oxidizing Surface tension No data available **Particle Size** Not applicable

Other information

Bulk density g/ml : 0.625-0.721

10. Stability and reactivity

Reactivity

No information available. Reactivity

Chemical stability

Stable under normal conditions. Stability

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

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

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 500	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: > 3.5	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	

Guinea pig

OECD 406

: Not a skin sensitizer

Chronic toxicity

Sensitization

Germ cell mutagenicity

Chemical name

Acetamiprid : Not classified

Carcinogenicity

Chemical name

Acetamiprid : Not Carcinogenic

Reproductive toxicity .

Chemical name

Acetamiprid : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Acetamiprid : No data available

STOT - Repeated Exposure

Chemical name

Acetamiprid : No data available

Aspiration hazard Chemical name

Acetamiprid : No data available

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks
Fish 96-hour | C50 mg/l 263.9 D. rerio OFCD 203

 Fish 96-hour LC50 mg/l
 : 263.9
 D. rerio
 OECD 203

 Crustacea 48-hour EC50 mg/l
 : >100
 Daphnia magna
 OECD 202

 Algae 72-hour EC50 mg/l
 : 123.73
 P. subcapitata
 OECD 201

Other plants EC50 mg/l : No data available

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 : 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

Acetamiprid : 98 Mallard duck

Bees Oral LD50 µg/bee

Chemical name

Acetamiprid : 14.53 Oral

Abiotic Degradation Water DT50 days Chemical name

Acetamiprid : 3.6 - 5.8

Soil DT50 days Chemical name

Acetamiprid : 2.9 Field

Biodegradation Chemical name

Acetamiprid : No data available

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

Chemical name

Acetamiprid : 0.80 OECD 117

Bioconcentration factor (BCF)

Chemical name

Acetamiprid : ---- No bioaccumulation

potential

Adsorption/Desorption Values Method Remarks

Chemical name

Acetamiprid : 71.1 - 138.4 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

14.1 UN number Not regulated

14.2

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazard
 Not regulated Not regulated

14.6 Special Precautions for Users

Special Provisions None

RID

14.1 UN number Not regulated

14.2

14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardNot regulated

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number Not regulated

14.2

14.3 Hazard ClassNot regulated14.4 Packing groupNot regulated14.5 Marine pollutantNot applicableEnvironmental hazardNot regulated

14.6 Special Precautions for Users

Special Provisions None

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 Not regulated

14.2

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazard
 Not regulated Not regulated

14.6 Special Precautions for Users

Special Provisions None

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

H302 - Harmful if swallowed

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

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

No data available Date of preparation of the SDS

Revision date 10-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

International Maritime Dangerous Goods (IMDG) **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 (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceilina Maximum limit value Skin designation

Abbreviations and acronyms

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

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

Chemical Abstracts Service number CAS Number -EC Number -**EINECS and ELINCS Number**

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

International Maritime Dangerous Goods IMDG -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

Regulations concerning the International Carriage of Dangerous Goods by Rail RID -

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

H302 - Harmful if swallowed Classification based on test data

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

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