

SAFETY DATA SHEET

Agil 100 EC

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Version 1

Product No LSMH00046-27 H-0199-29930-RAII 23375 29930

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Agil 100 EC

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Aspiration toxicity
Acute toxicity - Oral
Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitization
Reproductive toxicity
Category 1 - (H304)
Category 4 - (H302)
Category 2 - (H315)
Category 1 - (H318)
Category 1 - (H317)
Category 1 - (H360)
Category 1 - (H360)
Category 2 - (H411)

Label Elements

Hazard pictograms



Signal word Danger

Hazard Statements H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

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

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

P331 - Do NOT induce vomiting

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

Other Hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Propaquizafop	8 - 12	111479-05-1		Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1
N-Methyl-2-pyrrolidone	8 - 12	872-50-4	212-828-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360) STOT SE 3 (H335)	
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	37 - 41	N/A	922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	
Alcohols, C11-14-iso-, C13-rich, ethoxylated (7-15 EO)	37 - 41	78330-21-9	500-027-2	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	

Section 4: FIRST AID MEASURES

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!.

Page 2/10 ADAMA

Agil 100 EC - LSMH00046-27 Revision Date 22-Oct-2019

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. Call a physician

immediately.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center

immediately.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up



Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

General Hygiene Considerations

When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
N-Methyl-2-pyrrolidone 872-50-4		STEL: 75 ppm STEL: 309 mg/m³ TWA: 10 ppm TWA: 40 mg/m³ Skin	TWA: 40 mg/m³ TWA: 10 ppm STEL: 80 mg/m³ STEL: 20 ppm	S* STEL: 20 ppm STEL: 80 mg/m³ TWA: 10 ppm TWA: 40 mg/m³	TWA: 20 ppm TWA: 82 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 164 mg/m³ Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
N-Methyl-2-pyrrolidone 872-50-4			Skin STEL: 80 mg/m³ TWA: 40 mg/m³	TWA: 10 ppm TWA: 40 mg/m³ STEL: 20 ppm STEL: 80 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
N-Methyl-2-pyrrolidone 872-50-4	Skin STEL 20 ppm STEL 80 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³	Skin STEL: 40 ppm STEL: 160 mg/m³ TWA: 20 ppm TWA: 80 mg/m³	STEL: 80 mg/m³ TWA: 40 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ Skin STEL: 20 ppm STEL: 80 mg/m³	TWA: 25 ppm TWA: 101 mg/m³ Skin

ADAMA

Agil 100 EC - LSMH00046-27 Revision Date 22-Oct-2019

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Gloves made of plastic or rubber. **Hand Protection**

Body Protection Suitable protective clothing, Gloves made of plastic or rubber, Wear impervious protective

> clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact, Wear chemical resistant clothing such as gloves, apron, boots or whole

bodysuits made from neoprene, as appropriate, Rubber boots.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Keep away from food, drink and animal feeding

stuffs. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Local authorities

should be advised if significant spillages cannot be contained. Prevent product from

entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Values Method Remarks

Appearance Physical state Liquid

Color vellow - brown Odor Aromatic No data available **Odor threshold**

: 4-7 Ha

Melting point/freezing point °C Not Applicable

Boiling point/boiling range °C : No data available Flash point °C 101

Evaporation rate

Flammability (solid, gas) Not applicable for liquids No data available

Upper/lower flammability or explosive limits

Vapor pressure kPa

Not Applicable Vapor density : No data available

: 1.01 - 1.04 20 °C Relative density

Solubility(ies) mg/l Not Applicable

See Section 12 for more **Partition Coefficient** (n-octanol/water) Log Pow information

Autoignition temperature °C No data available

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C: 9.0

Explosive properties Not an explosive **Oxidizing properties** Not oxidizing

Other Information

Bulk density g/ml Not Applicable

Surface tension mN/m : 33.5 - 35.3 at 20°C

No data available

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible Materials

No information available

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Values

Section 11: TOXICOLOGY INFORMATION

Species

Method

Remarks

Information on toxicological effects

Acute toxicity

Oral LD50 mg/kg : > 2000

Dermal LD50 mg/kg : > 2000

Inhalation LC50 mg/l/4h : > 5.35

Skin corrosion/irritation : Irritating to skin

Serious eye damage/eye irritation

Respiratory/skin sensitization : Skin sensitizer

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Propaguizafop : Not classified

Carcinogenicity

Chemical Name

Propaquizafop : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Propaquizafop : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Propaquizafop : No data available

STOT - repeated exposure

Chemical Name

Propaguizafop : No data available



Aspiration hazard Chemical Name

Propaquizafop : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : 3.2 Rainbow trout Crustacea 48-hour EC50 mg/l : 2.4 Daphnia magna

Algae 72-hour EC50 mg/l : 1.2

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

Propaguizafop : > 2000 Bobwhite quail EPA 71-1

Bees Oral LD50 µg/bee

Chemical Name

Propaquizafop : >20 Apis mellifera Acute oral toxicity Not toxic to bees;

Maximum attainable

concentration

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Propaquizafop : 32 EPA-FIFRA 161-2/3 pH 7, 25 ° C

Soil DT50 days Chemical Name

Propaguizafop : < 3 days 20 °C

Biodegradation Chemical Name

Propaquizafop : Not readily biodegradable OECD 301 B

Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Propaquizafop : 4.78 OECD 117 $_{25^{\circ}}$ C

Bioconcentration factor (BCF)

Chemical Name

ADAMA Page 7/10

Agil 100 EC - LSMH00046-27 Revision Date 22-Oct-2019

(Whole fish) Propaquizafop : 583

Low potential for bioaccumulation in

aquatic organisms

Mobility in soil

Adsorption/Desorption Remarks Values Method

Chemical Name

Propaguizafop 1028.60 **OECD 106** Koc

Results of PBT and vPvB assessment

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

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No *

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaguizafop,

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

Hazard Class Ш **Packing Group** Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaguizafop,

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

Hazard Class Packing Group Ш **Environmental hazard** Yes

Special precautions for user

ICAO/IATA

UN/ID No *

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaguizafop, Proper shipping name

Hydrocarbons, C10-C13, aromatics, <1% naphthalene)

Hazard Class Ш **Packing Group Environmental hazard** Yes

Special precautions for user

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



* 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

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H360D - May damage the unborn child

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

EUH066 - Repeated exposure may cause skin dryness or cracking

Revision Note

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

List of 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 ED 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

Disclaime

The information provided in this Material 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

ADAMA Page 10/10