

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Shogun

Revision date 28-Apr-2022 Version 3.01 Supersedes Date: 16-Apr-2020

Product Code(s)

Print Date 28-Apr-2022 ADM.06350.H.1.B HRB00865-44

29933

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Shogun

Other means of identification

Synonyms Propaquizafop 100 EC

Pure substance/mixture Mixture

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

Recommended use Herbicide; Professional use Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> ADAMA Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale READING RG7 4SA

Tel: 01635 860555 Fax: 01635 861555

For further information, please contact

E-mail address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| classification according to regulation (20) No. 127272000 [OZI] | |
|---|---------------------|
| Aspiration hazard | Category 1 - (H304) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Chronic aquatic toxicity | Category 2 - (H411) |

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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

Hazard pictograms



Signal word Danger

Hazard statements H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

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

P331 - Do NOT induce vomiting

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

EU Specific Hazard Statements EUH066 - Repeated exposure may cause skin dryness or cracking

EUH208 - Contains (propaquizafop). May produce an allergic reaction

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

Additional phrases for PPP SP1 - Do not contaminate water with the product or its container (Do not clean application

equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information None known.

Persistent Organic Pollutants Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | Index No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | REACH Registration Number |
|---|--------|-----------|----------|----------|--|--|----------|---------------------------------|
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | - | 922-153-0 | | 40-45 | Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) | | | 01-211945109 7-39-0001 |

| Alcohols, C11-14-iso-, 78 C13-rich, ethoxylated (7-15 EO) | 78330-21-9 | 500-027-2 | | | | | |
|---|------------|-----------|--------------|-------|---|------------|---------------------------|
| (7-13 EO) | | | | 34-38 | Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) | | No data available |
| Propaquizafop 11 | 11479-05-1 | <u>-</u> | | 7-12 | Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | M=1 M=1 | No data available |
| Propylene carbonate 1 | 108-32-7 | 203-572-1 | 607-194-00-1 | 7-12 | Eye Irrit. 2 (H319) | | 01-211953723 2-48-0001 |

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

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

SECTION 4: First aid measures

4.1. Description of 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 doctor.

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.

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

clothes and shoes. Consult a doctor if necessary.

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

occur.

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctorsTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

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Small Fire Dry chemical, CO2, water spray or regular foam

Large Fire Do not scatter spilled material with high pressure water streams

Dyke fire-control water for later disposal Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

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

5.2. Special hazards arising from the substance or mixture

A fire or explosion Some may burn but none ignite readily

Containers may explode when heated

Some may be transported hot

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact

with skin, eyes or clothing.

Health risk Contact may cause burns to skin and eyes

Runoff from fire control may cause pollution

Fire may produce irritating, corrosive and/or toxic gases

Inhalation of material may be harmful

Inhalation of Asbestos dust may have a damaging effect on the lungs Some liquids produce vapours that may cause dizziness or suffocation

Spill or leak statements Avoid inhalation of asbestos dust

Do not touch or walk through spilled material

Prevent dust cloud

Stop leak if you can do it without risk

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

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Incineration If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all

directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions

Spill Increase, in the downwind direction, as necessary, the isolation distance shown under "Public safety"

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

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Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions 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.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

(PNEC)

No information available. No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

Skin and body protectionWear suitable protective clothing.

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

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property Values Method Remarks

Appearance

Physical state : Liquid

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Colour amber Odour Aromatic

Odour threshold No data available

CIPAC MT 75.3 3 - 7 pН 1 %

Melting point / freezing point °C No data available No data available

Boiling point / boiling range °C

Flash point °C 117.1 EEC A.9

Evaporation rate No data available Flammability (solid, gas) Not applicable Upper/lower flammability or No data available

explosive limits

Vapour pressure kPa No data available Vapour density No data available

CIPAC MT 3.1 Relative density 0.99 - 1.0920 °C

Solubility(ies) mg/l No data available

See Section 12 for additional

Ecological Information EEC A.15

Autoignition temperature °C : 410

Decomposition temperature °C : No data available

OECD 114 Kinematic viscosity mm2/s 40 °C: 16.3

Surface tension 29.5 EEC A.5 20°C

Particle Size : Not applicable

9.2. Other information

Partition coefficient Log Pow

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes : Not an explosive **Explosive properties** : Not oxidizing **Oxidising properties**

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

None known based on information supplied. Conditions to avoid

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Values Species Method Remarks **OECD 423** Oral LD50 mg/kg > 2000 Rat > 2000 **OECD 402** Dermal LD50 mg/kg Rat Inhalation LC50 mg/l **OECD 403** > 5.15 Rat Maximum

attainable concentration

Skin corrosion/irritation: Non-irritating to the skinRabbitOECD 404Serious eye damage/eye irritation: Irritating to eyesRabbitOECD 405Sensitisation: Not a skin sensitiserGuinea pigOECD 406

Chronic toxicity

Germ cell mutagenicity

Chemical name

Propaguizafop : Not classified

Carcinogenicity

Chemical name

Propaquizafop : Not Carcinogenic

Reproductive toxicity .

Chemical name

Propaguizafop : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Propaquizafop : No data available

STOT - Repeated Exposure

Chemical name

Propaquizafop : No data available

Aspiration hazard Chemical name

Propaquizafop : No data available

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Fish 96-hour LC50 mg/l : 6.53 Rainbow trout OECD 203

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Crustacea 48-hour EC50 mg/l: 12.9Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 6.28D. SubspicatusOECD 201

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

<u>Chronic aquatic toxicity</u> <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 : 1.25 green Algae OECD 202

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

12.2. Persistence and degradability

Abiotic Degradation Water DT50 days Chemical name

Propaguizafop : 32 EPA-FIFRA 161-2/3 pH 7, 25 • C

Soil DT50 days Chemical name

Propaguizafop : < 3 days 20° C

Biodegradation Chemical name

Propaguizafop : Not readily biodegradable OECD 301 B

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical name

Propaguizafop : 4.78 OECD 117

Bioconcentration factor (BCF)

Chemical name

Propaguizafop : 583 (Whole fish) Low potential for

bioaccumulation in aquatic organisms

12.4. Mobility in soil

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

Propaguizafop : 1028.60 OECD 106 KOC

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

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

environmental legislation.

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

Waste codes / waste designations

according to EWC / AVV

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

was used.

SECTION 14: Transport information

14.1 UN number UN3082

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

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

14.3 Transport hazard class(es)

14.4 Packing group

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

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Propaguizafop), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 601, 375

Classification code

RID

14.1 UN number UN3082

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

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

14.3 Transport hazard class(es)

14.4 Packing group

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

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Propaguizafop), 9, III

Environmental hazard Yes

Special Precautions for Users 14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

IMDG

14.1 UN number UN3082

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

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

14.3 Transport hazard class(es)

14.4 Packing group

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

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Propaguizafop), 9, III, Marine

pollutant Yes

Yes

14.5 Environmental hazard

14.6 Special Precautions for Users

14.5 Marine pollutant

Yes **Environmental hazard**

14.6 Special Precautions for Users

Special Provisions 274, 335, 969

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F-A, S-F EmS-No

IMDG Stowage and segregation Category A No information available

14.7 Maritime transport in bulk according to IMO instruments

No information available

IATA

14.1 UN number UN3082

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

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

14.3 Transport hazard class(es) 14.4 Packing group

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

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Propaguizafop), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions ERG Code ٩I

A97, A158, A197



SECTION 15: Regulatory information

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

Trade name / designation Registration Number(s) **Date**

Not Applicable Not Applicable Not Applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Report A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H319 - Causes serious eye irritation

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

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value * Skin designation

Revision date 28-Apr-2022

Reason for revision Changes made to the last version are labeled with this sign ***

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification of the mixture

Classification procedure

H304 - May be fatal if swallowed and enters airways

Classification based on test data

H319 - Causes serious eye irritation

Classification based on test data

H411 - Toxic to aquatic life with long lasting effects

Classification based on Calculation method

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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