

# SAFETY DATA SHEET

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

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Version 3

Product No HRB00865-44 AG-P6-100 EC\_ADM.06350.H.1.A

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

1.1. Product identifier

# Tithe

Synonyms Pure substance/mixture Propaquizafop 100 EC Mixture

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

Recommended UseHerbicideUses advised againstNo information available

1.3. Details of the supplier of the safety data sheet

Supplier Address 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

Email 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]

Aspiration hazard	Category 1 - (H304)
Serious eye damage/eye irritation	Category 2 - (H319)
Hazardous to the Aquatic	Category 2 - (H411)
Environment - Chronic Hazard	

# 2.2. Label elements

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

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 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
Additional phrases for PPP	EUH208 - Contains Propaquizafop. May produce an allergic reaction. 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

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Propaquizafop	7-12	111479-05-1	-	-	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1	-
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	40-45	N/A	922-153-0	-	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)		01-2119451097 -39-0001
Alcohols, C11-14-iso-, C13-rich, ethoxylated (7-15 EO)	34-38	78330-21-9	500-027-2	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		-
Propylene carbonate	7-12	108-32-7	203-572-1	607-194-00-1	Eye Irrit. 2 (H319)		01-2119537232 -48-0001

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 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. Call a physician immediately.	
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.	
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 physicians	Treat symptomatically.	

# Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media

No information available.

### 5.2. Special hazards arising from the substance or mixture

No specific hazard known.

### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

# Section 6: ACCIDENTAL RELEASE MEASURES

# 6.1. 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.

# 6.2. 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.

# 6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

# 6.4. Reference to other sections

#### Other Information

See also section 8,13

# Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

### Advice on safe handling

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

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

# 7.3. 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

# 8.1. Control parameters

### 8.2. Exposure controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment Eye/face protection	Tight sealing safety goggles.
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).
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.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.
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

# 9.1. Information on basic physical and chemical properties

Property	Values	Method	<u>Remarks</u>
Appearance			
Physical state	: liquid		
Color	amber		
Odor	Aromatic		
Odor threshold			No data available
pH	: 4-7	CIPAC MT 75.3	
Melting point/freezing point °C			Not Applicable
Boiling point/boiling range °C	: .		No data available
Flash point °C	102.6	CIPAC MT 12	
Evaporation rate	: .		Not Applicable
Flammability (solid, gas)	:		Not Applicable
Upper/lower flammability or	: .		No data available
explosive limits			
Vapor pressure kPa	: .		Not Applicable
Vapor density	: .		No data available
	: 0.99 - 1.09	CIPAC MT 3.3	201 °C
Solubility(ies) mg/l			Not Applicable
Partition Coefficient	:		See Section 12 for more
(n-octanol/water) Log Pow			information
Autoignition temperature °C	: 410	EEC A.15	
Decomposition temperature °C	: .		No data available
Kinematic viscosity mm2/s 40 °C	16.2	OECD 114	
Explosive properties	Not an explosive	EEC A.14	
	Not oxidizing	EEC A.21	
•/····································			
9.2. Other information			
Bulk density g/ml	:.		Not Applicable
Surface tension mN/m	26.9	EEC A.5	25°C
25°C			

# Section 10: STABILITY AND REACTIVITY

# 10.1. Reactivity

No data available.

# 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

# 10.5. Incompatible materials

No information available

# 10.6. Hazardous decomposition products

None under normal use conditions.

# Section 11: TOXICOLOGY INFORMATION

# 11.1. Information on toxicological effects

Acute	toxicity

Acute toxicity Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 mg/l/4h Skin corrosion/irritation Serious eye damage/eye irritation Respiratory/skin sensitization	Values: > 2000: > 2000: > 5.15: Non-irritating to the skin: Irritating to eyes: Not a skin sensitizer	<u>Species</u> Rat Rat Rat Rabbit Rabbit Guinea pig	Method OECD 423 OECD 402 OECD 403 OECD 404 OECD 405 OECD 406	<u>Remarks</u>
Chronic toxicity				
Germ cell mutagenicity Chemical Name Propaquizafop	: Not classified			
<b>Carcinogenicity Chemical Name</b> Propaquizafop	: Not Carcinogenic			
Reproductive toxicity . Chemical Name Propaquizafop	: Not toxic for the reproductive	ve 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			

# Section 12: ECOLOGICAL INFORMATION

# 12.1. Toxicity

# **Aquatic toxicity**

Acute toxicity	Va	alues	Spe	cies_	Meth	nod	Remarks_	
Fish 96-hour LC50 mg/l	: 6	.53	Rair	nbow trout	OEC	D 203		
Crustacea 48-hour EC50 mg/l	: 12	2.9	Dap	hnia magna	OEC	D 202		
Algae 72-hour EC50 mg/l	: 2	.99	D. S	Subspicatus	OEC	D 201		
Other plants EC50 mg/l	:						No data avail	lable

Chronic aquatic toxicity Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	: : :	Values No data available No data available 1.25 No data available	<u>Species</u> green Algae		Method OECD 201	<u>Remarks</u>
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical Name Propaquizafop	:	> 2000	Bobwhite quail		EPA 71-1	
Bees Oral LD50 μg/bee Chemical Name Propaquizafop	:	>20	Apis mellifera		Acute oral toxicity	<ul> <li>Not toxic to bees;</li> <li>Maximum attainable concentration</li> </ul>
12.2. Persistence and degradability						
Abiotic Degradation Water DT50 days		Values		Met	hod	<u>Remarks</u>
Chemical Name Propaquizafop	:	32		EPA	-FIFRA 161-2/3	рН 7, 25 ° С
Soil DT50 days Chemical Name Propaquizafop	:	< 3 days				201 °C
Biodegradation Chemical Name Propaquizafop	:	Not readily biodeg	radable	OEC	CD 301 B	
12.3. Bioaccumulative potential						
Partition Coefficient (n-octanol/water) Log Pow Chemical Name		<u>Values</u>		<u>Met</u>	<u>hod</u>	<u>Remarks</u>
Propaquizafop	:	4.78		OEC	CD 117	25° C
<b>Bioconcentration factor (BCF) Chemical Name</b> Propaquizafop	:	583		(Wh	ole fish)	Low potential for bioaccumulation in aquatic organisms
12.4. Mobility in soil						
Adsorption/Desorption Chemical Name		<u>Values</u>		Met	hod	<u>Remarks</u>
Propaquizafop	:	1028.60		OEC	CD 106	КОС
<b><u>12.5. Results of PBT and vPvB assessment</u></b> The components in this formulation do not meet the criteria for classification as PBT or vPvB						

# 12.6. Other adverse effects

No information available.

# Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	
Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
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 14.1 UN/ID No * 14.2 Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Marine pollutant 14.6 Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaquizafop Hydrocarbons, C10-13, aromatics, <1% naphthalene,) 9 III Yes
RID/ADR14.1 UN/ID No *14.2 Proper shipping name14.3 Hazard Class14.4 Packing Group14.5 Environmental hazard14.6 Special precautions for user14.7 Tunnel restriction code	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaquizafop Hydrocarbons, C10-13, aromatics, <1% naphthalene, ) 9 III Yes
ICAO/IATA 14.1 UN/ID No * 14.2 Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental hazard 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propaquizafop Hydrocarbons, C10-13, aromatics, <1% naphthalene, ) 9 III Yes



\* 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

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

#### Trade name

#### **Registration number**

Registration date

Not Applicable

Not Applicable

Not Applicable

#### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

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

EUH066 - Repeated exposure may cause skin dryness or cracking

#### 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
- 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

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

**Revision Note** 

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

# Process of classification evaluation in accordance with CLP regulation.

#### **Classification of the mixture**

H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

#### Classification procedure Classification based on test data Classification based on test data Classification based on Calculation method

#### Disclaimer

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