

SAFETY DATA SHEET

Quizalofop-p-ethyl 100 EC

Revision Date 30-Apr-2019 Version 2 Product No LSMH00040-E Publish Date 30-Apr-2019 H-0178-30584-RAII 30584

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

Product identifier

Quizalofop-p-ethyl 100 EC

Pure substance/mixture

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

Recommended Use Herbicide

No information available Uses advised against

Details of the supplier of the safety data sheet

Supplier Address ADAMA Agan Ltd

P.O.B. 262 **ASHDOD** Israel

For further information, please contact

SDS@ADAMA.COM **Email address**

Emergency Telephone

Emergency Telephone +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Aspiration toxicity Category 1 - (H304) Acute toxicity - Dermal Category 5 - (H313) Skin corrosion/irritation Category 2 - (H315) Serious eye damage/eye irritation Category 1 - (H318) Specific target organ toxicity (single Category 3 - (H335) exposure)

Specific target organ toxicity (repeated Category 2 - (H373)

exposure)

Acute aquatic toxicity Category 2 - (H401) Chronic aquatic toxicity Category 2 - (H411) Flammable liquids Category 3 - (H226)

Label Elements

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Hazard pictograms



Signal word Danger

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

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

Precautionary Statements P102 - Keep out of reach of children

P210 -Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P243 - Take precautionary measures against static discharge

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of 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

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Quizalofop-p-ethyl	9-12	100646-51-3		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10 M=1
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	7-11	N/A	932-231-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
2-Ethylhexanol	7-11	104-76-7	203-234-3	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	
Xylene	10-14	1330-20-7	215-535-7	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT RE 2 (H373)	

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Section 4: FIRST AID MEASURES

First aid measures

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If

symptoms persist, call a physician.

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

clothes and shoes. Consult a physician if necessary. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Immediate medical attention is not required.

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. If symptoms persist, call a physician. Clean mouth with

water and drink afterwards plenty of water. Never give anything by mouth to an

unconscious person. Call a physician. Do NOT induce vomiting.

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. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. 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. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

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 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
2-Ethylhexanol					TWA: 10 ppm
104-76-7					TWA: 54 mg/m ³
					Ceiling / Peak: 10 ppm
					Ceiling / Peak: 54
					mg/m³
					TWA: 20 ppm
					TWA: 110 mg/m ³
Xylene	S*	STEL: 100 ppm	TWA: 50 ppm	S*	TWA: 100 ppm
1330-20-7	TWA 50 ppm	STEL: 441 mg/m ³	TWA: 221 mg/m ³	STEL: 100 ppm	TWA: 440 mg/m ³
	TWA 221 mg/m ³	TWA: 50 ppm	TWA: 1000 mg/m ³	STEL: 442 mg/m ³	Ceiling / Peak: 200
	STEL 100 ppm	TWA: 220 mg/m ³	STEL: 100 ppm	TWA: 50 ppm	ppm

	STEL 442 mg/m ³	Skin	STEL: 442 mg/m ³ STEL: 1500 mg/m ³	TWA: 221 mg/m³	Ceiling / Peak: 880 mg/m³ Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Xylene	TWA: 50 ppm	STEL: 150 ppm	Skin	TWA: 50 ppm	TWA: 25 ppm
1330-20-7	TWA: 221 mg/m ³	TWA: 100 ppm	STEL: 442 mg/m ³	TWA: 220 mg/m ³	TWA: 109 mg/m ³
	STEL: 100 ppm		TWA: 210 mg/m ³	STEL: 100 ppm	Skin
	STEL: 442 mg/m ³			STEL: 440 mg/m ³	
	Skin			Skin	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
JJui Huillo	71401114	•			
2-Ethylhexanol	Skin	STEL: 20 ppm	STEL: 320 mg/m ³		
				,	
2-Ethylhexanol	Skin	STEL: 20 ppm	STEL: 320 mg/m ³	,	
2-Ethylhexanol	Skin STEL 100 ppm	STEL: 20 ppm STEL: 110 mg/m ³	STEL: 320 mg/m ³		
2-Ethylhexanol	Skin STEL 100 ppm STEL 540 mg/m³	STEL: 20 ppm STEL: 110 mg/m³ TWA: 20 ppm	STEL: 320 mg/m ³	,	
2-Ethylhexanol	Skin STEL 100 ppm STEL 540 mg/m³ TWA: 50 ppm	STEL: 20 ppm STEL: 110 mg/m³ TWA: 20 ppm	STEL: 320 mg/m ³	TWA: 25 ppm	TWA: 50 ppm
2-Ethylhexanol 104-76-7	Skin STEL 100 ppm STEL 540 mg/m³ TWA: 50 ppm TWA: 270 mg/m³ Skin STEL 100 ppm	STEL: 20 ppm STEL: 110 mg/m³ TWA: 20 ppm TWA: 110 mg/m³ Skin STEL: 200 ppm	STEL: 320 mg/m ³ TWA: 160 mg/m ³	TWA: 25 ppm TWA: 108 mg/m³	TWA: 50 ppm TWA: 221 mg/m³
2-Ethylhexanol 104-76-7 Xylene	Skin STEL 100 ppm STEL 540 mg/m³ TWA: 50 ppm TWA: 270 mg/m³ Skin	STEL: 20 ppm STEL: 110 mg/m³ TWA: 20 ppm TWA: 110 mg/m³ Skin	STEL: 320 mg/m ³ TWA: 160 mg/m ³ TWA: 100 mg/m ³	TWA: 25 ppm	TWA: 50 ppm
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Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering Controls**

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 Suitable protective clothing, Apron, Gloves made of plastic or rubber.

Respiratory protection Use only with adequate ventilation.

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular **General Hygiene Considerations**

cleaning of equipment, work area and clothing is recommended.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Values Method Remarks

Appearance

Physical state : Liquid Amber Color Odor : Aromatic : No data available **Odor threshold**

: 5-7

рΗ

Melting point/freezing point °C Not Applicable Boiling point/boiling range °C Not Applicable Flash point °C : 25

Evaporation rate : Not Applicable

Flammability (solid, gas) Not applicable for liquids Upper/lower flammability or : No data available

explosive limits

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Vapor pressure kPa : ---- No data available

Vapor density : No data available

Relative density : 0.95 - 0.97 20° C

Solubility(ies)mg/l: ---No data availablePartition Coefficient: ---See Section 12 for more

(n-octanol/water) Log PowinformationAutoignition temperature °C: ---No data availableDecomposition temperature °C: ---No data availableKinematic viscosity mm2/s 40 °C: ---No data available

Explosive properties : Not an explosive Oxidizing properties : Not oxidizing

Other Information

Bulk density g/ml: ---Not ApplicableSurface tension mN/m: ---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

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

 Values
 Species
 Method
 Remarks

 Oral LD50 mg/kg
 : > 5000
 Rat

 Dermal LD50 mg/kg
 : > 5000
 Rat

 Inhalation LC50 mg/l/4h
 : > 5.0
 Rat

Skin corrosion/irritation: Moderate skin irritation

Serious eye damage/eye irritation : Slight

Respiratory/skin sensitization: Not a skin sensitizer

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Quizalofop-p-ethyl : Not classified

Carcinogenicity

Chemical Name

Quizalofop-p-ethyl : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Quizalofop-p-ethyl : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Quizalofop-p-ethyl : No data available

STOT - repeated exposure

Chemical Name

Quizalofop-p-ethyl : No data available

Aspiration hazard Chemical Name

Quizalofop-p-ethyl : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity

Fish 96-hour LC50 mg/l

Crustacea 48-hour EC50 mg/l

Algae 72-hour EC50 mg/l

: ---
Values

Species

Method

Remarks

No data available

No data available

No data available

Algae 72-hour EC50 mg/l : ---Other plants EC50 mg/l : ----

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/I : No data available
Crustacea NOEC mg/I : No data available
Algae NOEC mg/I : No data available
Other plants NOEC mg/I : No data available

Terrestrial Toxicity Birds Oral LD50 mg/kg

Chemical Name

Quizalofop-p-ethyl : > 2000

Bees Oral LD50 µg/bee

Chemical Name

Quizalofop-p-ethyl : > 94 OECD 213, OECD

214

No data available

Persistence and degradability

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

Water DT50 days

Chemical Name

Quizalofop-p-ethyl : <1 OECD 308

Soil DT50 days Chemical Name

Siletifical Name

Quizalofop-p-ethyl : < 0.5 OECD 307

Biodegradation

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Chemical Name

Quizalofop-p-ethyl : No data available

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

Quizalofop-p-ethyl : 2.8 OECD 107

Bioconcentration factor (BCF)

Chemical Name

Quizalofop-p-ethyl : Low

Mobility in soil

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

Chemical Name

Quizalofop-p-ethyl : ---- No data available

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 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

UN/ID No * 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Xylene)

Hazard Class 3
Packing Group III

Marine pollutant Yes This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

Special precautions for user

RID/ADR

UN/ID No * 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Xylene)

Hazard Class 3
Packing Group III
Environmental hazard Yes

Special precautions for user

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ICAO/IATA

UN/ID No * 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Xylene)

Hazard Class 3
Packing Group III
Environmental hazard Yes

Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the

Not Applicable

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

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 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

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