

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 168119
Date of revision: 12/17/2020 Supersedes version of: 11/22/2019 Version: 2.1

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

1.1. Product identifier

Product form : Mixture

: Quizalofop-P-tefuryl 40 g/L - EC Name

Trade name : Rango

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

1.2.1. Relevant identified uses

Main use category : Professional use Industrial/Professional use spec : Plant protection products

Use of the substance/mixture : Herbicide

1.2.2. Uses advised against

Restrictions on use : No known evidence against using

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience Great Britain Ltd. Brooklands Farm Cheltenham Road WR11 2LS Evesham - United Kingdom T +44 1386 425500 sds.info@upl-ltd.com

1.4. Emergency telephone number

: Europe/Rest of the world (English): +44(0)1235 239670 **Emergency number**

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh | Little France Crescent EH16 4SA Edinburgh | 0344 892 0111 | |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318
Carcinogenicity, Category 2 H351
Reproductive toxicity, Category 2 H361fd
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)







GHS05

GHS08

GHS09

Signal word (CLP) : Danger

Contains : Quizalofop-P-tefuryl; White mineral oil (petroleum); Alcohols, C12-16, ethoxylated

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

H318 - Causes serious eye damage. H351 - Suspected of causing cancer.

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 - Toxic to aquatic life with long lasting effects.P201 - Obtain special instructions before use.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective gloves.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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 hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

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

for use.

2.3. Other hazards

Precautionary statements (CLP)

Other hazards which do not result in classification

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|----------|---|
| White mineral oil (petroleum) | (CAS-No.) 8042-47-5 (EC-No.) 232-455-8 (REACH-no) 01-2119487078-27 | 25 – 50 | Asp. Tox. 1, H304 |
| Alcohols, C12-16, ethoxylated | (CAS-No.) 68551-12-2 | 10 – 20 | Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Poly(oxy-1,2-ethanediyl), α-[2,4,6-tris(1- phenylethyl)phenyl]-ω-hydroxy- | (CAS-No.) 99734-09-5 | 2.5 – 10 | Aquatic Chronic 3, H412 |
| Propylene glycol substance with national workplace exposure limit(s) (GB) | (CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809-23 | 2.5 – 10 | Not classified |
| quizalofop-P-tefuryl (ISO); (+/–) tetrahydrofurfuryl (R)- 2-[4-(6- chloroquinoxalin-2- yloxy)phenyloxy]propionate | (CAS-No.) 200509-41-7 (EC-No.) 414-200-4 (EC Index-No.) 607-373-00-4 | 2.5 – 10 | Carc. 2, H351 Repr. 2, H361fd Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt | (EC-No.) 932-231-6 (REACH-no) 01-2119560592-37 | 1-3 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| 2-ethylhexan-1-ol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | (CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20 | 1 – 2.5 | Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| 4. 1. Description of first aid measures | |
|---|---|
| First-aid measures general | : Remove the victim away from contaminated area. In all cases of doubt, or when symptoms persist, seek medical attention. If possible show this sheet, if not available show packaging or label. |
| First-aid measures after inhalation | : Remove victim to fresh air. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists. |
| First-aid measures after skin contact | : Immediately remove contaminated clothing or footwear. Wash off with soap and plenty of water. If case of redness or irritation, call a doctor. Do not remove clothing if it sticks to the skin. |
| First-aid measures after eye contact | : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Rinse mouth out with water. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately. |

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

Symptoms/effects : Causes serious eye damage. Suspected of causing cancer. Suspected of damaging fertility.

Suspected of damaging the unborn child. May be fatal if swallowed and enters airways.

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

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media appropriate for surrounding fire. Foam. Water fog. Dry powder.

Carbon dioxide (CO2), Sand/earth.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Burning produces stinking and toxic fumes. Carbon monoxide. Organic compounds.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained

breathing apparatus and chemically protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate personnel to a safe area. Only qualified personnel

equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not flush down sewers. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible. Keep upwind.

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel).

Other information : Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Use personal protective equipment as required.

Avoid contact with skin, eyes and clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a place accessible by authorised persons only. Keep container tightly closed. Store

in dry, well-ventilated area. Containers which are opened should be properly resealed and

kept upright to prevent leakage.

Incompatible products : Oxidising agents.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Propylene glycol (57-55-6) | | |
|---|--|--|
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Propane-1,2-diol | |
| WEL TWA (OEL TWA) [1] | 10 mg/m³ particulates 474 mg/m³ total vapour and particulates | |
| WEL TWA (OEL TWA) [2] | 150 ppm total vapour and particulates | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| 2-ethylhexan-1-ol (104-76-7) | | |
|---|---------------------------------------|--|
| United Kingdom - Occupational Exposure Limits | | |
| Local name 2-ethylhexan-1-ol | | |
| WEL TWA (OEL TWA) [1] | 5.4 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 1 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Observe the label precautions.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Sealed safety goggles

8.2.2.2. Skin protection

Skin and body protection:

Impervious clothing

Hand protection:

Solvent-resistant gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Before removing gloves clean them with soap and water

8.2.2.3. Respiratory protection

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Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Vapours or aerosols: Breathing apparatus with filter

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent entry to sewers and public waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Emulsifiable concentrate.

: clear. Yellow. Colour Odour : No data available Odour threshold : No data available рΗ : 5.8 (1 %, 23.5 °C) Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available : 85 - 89 °C Flash point : 314.84 °C Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available : 0.915 (20 °C) Relative density Solubility : Water: Emulsifiable Partition coefficient n-octanol/water (Log Pow) : Not applicable Viscosity, kinematic : 6.8 mm²/s (40 °C) Viscosity, dynamic : No data available

9.2. Other information

Explosive properties

Oxidising properties

Explosive limits

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

: Not explosive.

: Non oxidizing.

: No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None to our knowledge.

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10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| Quizalofop-P-tefuryl (200509-41-7) | | |
|------------------------------------|---|--|
| LD50 oral rat | 1012 mg/kg (OECD 401 method) | |
| LD50 dermal rabbit | > 2000 mg/kg (OECD 402 method) | |
| LC50 Inhalation - Rat (Dust/Mist) | > 3.9 mg/l/4h (OECD 403 method) (maximum attainable concentration - zero mortality) | |

| Alcohols, C12-16, ethoxylated (68551-12-2) | |
|--|--------------|
| LD50 oral rat | > 2000 mg/kg |

| 2-ethylhexan-1-ol (104-76-7) | | |
|---------------------------------|--|--|
| LD50 oral rat | 2047 mg/kg | |
| LD50 dermal rat | > 3000 mg/kg | |
| LC50 Inhalation - Rat | 1 – 4 mg/l/4h (Aerosol) | |
| LC50 Inhalation - Rat (Vapours) | > 0.89 mg/l/4h (maximum attainable concentration - zero mortality) | |

| Poly(oxy-1,2-ethanediyl), α-[2,4,6-tris(1-phenylethyl)phenyl]-ω-hydroxy- (99734-09-5) | |
|---|--------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 5.8 (1 %, 23.5 °C)

Additional information : Quizalofop-P-tefuryl :

Not irritating to rabbits on cutaneous application

(OECD 404 method)

Serious eye damage/irritation : Causes serious eye damage.

pH: 5.8 (1 %, 23.5 °C)

Additional information : Quizalofop-P-tefuryl :

Not irritating to rabbits on ocular application

(OECD 405 method)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Quizalofop-P-tefuryl :

Buehler Test:

Does not cause cutaneous sensitisation for guinea-pigs

(OECD 406 method)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Quizalofop-P-tefuryl :

In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects

Carcinogenicity : Suspected of causing cancer.

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| Quizalofop-P-tefuryl (200509-41-7) | |
|------------------------------------|---------------------------------------|
| NOAEL, oral, rat | 25 ppm (2 years, (OECD 453 method)) |
| LOAEL, oral, rat | 750 ppm (2 years, (OECD 453 method)) |
| NOEL, Toxicity, oral, mouse | 10 ppm (18 months, (OECD 451 method)) |

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

| Quizalofop-P-tefuryl (200509-41-7) | | |
|---|-------------------------------------|--|
| Reproductive toxicity | : | |
| NOEL, oral, rat, Toxicity - Parent | 625 ppm | |
| Developmental toxicity/teratogenicity | : | |
| NOEL, Maternal toxicity, oral, rat | 25 mg/kg bw/day | |
| NOEL, Developmental toxicity, oral, rat | 100 mg/kg bw/day | |
| NOEL, Maternal toxicity, oral, rat | 10 mg/kg bw/day ((OECD 414 method)) | |
| NOEL, Developmental toxicity, oral, rat | 30 mg/kg bw/day ((OECD 414 method)) | |

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

| 2-ethylhexan-1-ol (104-76-7) | |
|------------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

| Quizalofop-P-tefuryl (200509-41-7) | |
|------------------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| NOEL, subchronic, oral, rat | 250 ppm (28 days, (OECD 407 method), Target organ(s): liver, kidneys, testis, brain) |
| LOAEL, subchronic, oral, rat | 500 ppm (28 days, (OECD 407 method), Target organ(s): liver, kidneys, testis, brain) |
| NOAEL, subchronic, oral, rat | 25 ppm (90 days, (OECD 408 method), Target organ(s): liver, blood) |
| LOAEL, subchronic, oral, rat | 500 ppm (90 days, (OECD 408 method), Target organ(s): liver, blood) |
| NOAEL, subchronic, oral, mouse | 50 ppm (95-96 days, (OECD 408 method), Target organ(s): kidneys, liver) |
| NOAEL, subacute, oral, Dog | 1000 ppm (28 days, (OECD 407 method), Target organ(s): thymus, liver, kidneys, spleen, testis) |
| NOAEL, subchronic, oral, Dog | 900 ppm (90 days, (OECD 409 method)) |
| LOAEL, subchronic, oral, Dog | 1800 ppm (90 days, (OECD 409 method)) |
| NOAEL, Chronic, oral, Dog | 750 ppm (1 years, (OECD 409 method)) |
| LOAEL, Chronic, oral, Dog | 1500 ppm (1 years, (OECD 409 method)) |

Aspiration hazard : May be fatal if swallowed and enters airways.

| Rango | |
|----------------------|--------------------------------|
| Viscosity, kinematic | 6.8 mm ² /s (40 °C) |

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Not classified

: Toxic to aquatic life with long lasting effects.

| Rango | |
|--------------------|---|
| ErC50 algae | 1.61 mg/l/72h (Pseudokirchneriella subcapitata) |
| NOEC chronic algae | 0.37 mg/l/72h (Pseudokirchneriella subcapitata) |

| Quizalofop-P-tefuryl (200509-41-7) | |
|------------------------------------|---|
| LC50 - Fish [1] | 0.23 mg/l/96h (Lepomis macrochirus (Bluegill)) |
| LC50 fish | 0.51 mg/l/96h (Oncorhynchus mykiss (Rainbow trout)) |
| EC50 - Crustacea [1] | > 1.5 mg/l/48h (Daphnia magna) |
| ErC50, aquatic algae | 1.3 mg/l/72h ((OECD 201 method), Navicula pelliculosa) |
| ErC50, aquatic algae | > 1.9 mg/l/72h ((OECD 201 method), Pseudokirchneriella subcapitata) |
| NOEC, plants | 0.38 mg/l (14 days, Lemna gibba) |

| Alcohols, C12-16, ethoxylated (68551-12-2) | |
|--|---|
| LC50 - Fish [1] | 1 – 10 mg/l/96h (Danio rerio) (OECD 203 method) |
| EC10, daphnia, Chronic | 0.17 mg/l |

| 2-ethylhexan-1-ol (104-76-7) | |
|------------------------------|--|
| LC50 - Fish [1] | 17.1 mg/l/96h (Leuciscus idus melanotus) |
| LC50 fish | 28.2 mg/l/96h (Pimephales promelas) |
| EC50 - Crustacea [1] | 39 mg/l/48h (Daphnia magna) |
| ErC50 algae | 16.6 mg/l/72h (Scenedesmus subspicatus) |
| EbC50, algae | 11.5 mg/l/72h (Scenedesmus subspicatus) |

| Poly(oxy-1,2-ethanediyl), α -[2,4,6-tris(1-phenylethyl)phenyl]- ω -hydroxy- (99734-09-5) | |
|--|----------------------------------|
| LC50 - Fish [1] | 21 mg/l (96h, Brachydanio rerio) |

12.2. Persistence and degradability

| Quizalofop-P-tefuryl (200509-41-7) | |
|------------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

| 2-ethylhexan-1-ol (104-76-7) | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| Rango | |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable |

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| Quizalofop-P-tefuryl (200509-41-7) | |
|---|----------|
| BCF - Fish [1] | 340 l/kg |
| Partition coefficient n-octanol/water (Log Pow) | 4.32 |

| Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt | |
|--|----------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.89 (20 °C, Test method EU A.8) |

12.4. Mobility in soil

| Rango | |
|-----------------|--|
| Surface tension | 29.2 mN/m 1% (20 °C) - 28.2 mN/m 1 % (25 °C) |

12.5. Results of PBT and vPvB assessment

| Component | |
|------------------------------------|---|
| Quizalofop-P-tefuryl (200509-41-7) | PBT/vPvB assessment not available as chemical safety assessment not conducted |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Empty remaining contents. Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA | |
|--|---|--|--|
| 14.1. UN number | | | |
| UN 3082 | UN 3082 | UN 3082 | |
| 14.2. UN proper shipping name | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop-P- tefuryl) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop-P- tefuryl) | Environmentally hazardous substance, liquid, n.o.s. (Quizalofop-P-tefuryl) | |
| Transport document description | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop-P- tefuryl), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quizalofop-P- tefuryl), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Quizalofop-P-tefuryl), 9, III | |
| 14.3. Transport hazard class(es) | | | |
| 9 | 9 | 9 | |
| | | | |
| 14.4. Packing group | | | |
| III | III | III | |

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| 14.5. Environmental hazards | | |
|--|---|-------------------------------------|
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP2, TP29

EmS-No. (Fire) : F-A

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : E2 Hazardous to the Aquatic Environment in Category Chronic 2

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). This sheet has been revised completely (changes were not marked).

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG | International Maritime Dangerous Goods |
| IATA | International Air Transport Association |
| LD50 | Median lethal dose |
| LC50 | Median lethal concentration |
| EC50 | Median effective concentration |
| NOEC | No-Observed Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| BCF | Bioconcentration factor |
| PBT | Persistent Bioaccumulative Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| OECD | Organisation for Economic Co-operation and Development |

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 | |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 | |
| Asp. Tox. 1 | Aspiration hazard, Category 1 | |

Safety Data Sheet

*** DR AFT ***

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Carc. 2 | Carcinogenicity, Category 2 | |
|---------------|--|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Repr. 2 | Reproductive toxicity, Category 2 | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 | |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | |
| H302 | Harmful if swallowed. | |
| H304 | May be fatal if swallowed and enters airways. | |
| H315 | Causes skin irritation. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H332 | Harmful if inhaled. | |
| H335 | May cause respiratory irritation. | |
| H351 | Suspected of causing cancer. | |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| 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. | |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. | |
| | | |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|--------|--------------------|
| Eye Dam. 1 | H318 | Calculation method |
| Carc. 2 | H351 | Calculation method |
| Repr. 2 | H361fd | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

Safety Data Sheet applicable for regions

: GB - United Kingdom

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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.