SAFETY DATA SHEET
Quickshine Trigger

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

1.1. Product identifier

Product name Quickshine Trigger

Product number SAPP0186A, SAPP0186B

Internal identification NQA2227

EU REACH registration notes This is a MIXTURE; no registration information contained in this document. Holts are classed as Downstream User.

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

Identified uses Car maintenance product.

1.3. Details of the supplier of the safety data sheet

Supplier
Holt Lloyd Services
52 Rue des 40 Mines, 60000 – Allonne, France
Phone: +33 (0)3 64 99 00 32
info@holtsauto.com

Contact person Contact email address: info@holtsauto.com

Manufacturer
Holt Lloyd International Ltd
Barton Dock Road
Stretford
Manchester
M32 0YQ - England, UK
+44 (0) 161 866 4800
FAX +44 (0) 161 866 4854
www.holtsauto.com

1.4. Emergency telephone number

Emergency telephone UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

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National emergency telephone number	+43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria) +32022649636; info@poisoncentre.be (Belgium) +359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria) +38514686910; toksikologija@hzjz.hr (Croatia) +35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus) +420267082257; biocidy@mzcr.cz (Czech Republic) +45 72 54 40 00; mst@mst.dk (Denmark) +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia) +358 5052 000; kirjaamo@tukes.fi (Finland) + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France) +49-30-18412-0; bfr@bfr.bund.de (Germany) +302106479250; +302106479450; devxp.gcsl@aade.gr, environment.gcsl@aade.gr (Greece) +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary) +354 543 22 22; eitur@landspitali.is (Iceland) +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland) +390649906140; inscweb@iss.it (Italy) +371 67032600; lvgmc@lvgmc.lv (Latvia) +370 70662008; aaa@aaa.am.lt (Lithuania) +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg) +356 2395 2000; info@mccaa.org.mt (Malta) +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands) +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway) +48 42 2538 400; biuro@chemikalia.gov.pl (Poland) +351 800 250 250; ciav.tox@inem.pt (Portugal) +40213183606; infotox@insp.gov.ro (Romania) +7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia) +421 2 5465 2307; ntic@ntic.sk (Slovakia) + 386 1 522 1293; gp.ukc@kclj.si (Slovenia) +34 917689800; intcf.doc@justicia.es (Spain) +46104566750; giftinformation@gic.se (Sweden) +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements	NC Not Classified
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/ container in accordance with national regulations.
Detergent labelling	< 5% perfumes, Contains Benzylhemiformal, Coumarin, BRONOPOL (INN)

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Benzylhemiformal **<1%**

CAS number: 14548-60-8 EC number: 238-588-8

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335

Isotridecanol, ethoxylated **<1%**

CAS number: 69011-36-5 EC number: 500-241-6

Classification
Acute Tox. 4 - H302
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

Coumarin **<1%**

CAS number: 91-64-5 EC number: 202-086-7

Classification
Acute Tox. 4 - H302
Skin Sens. 1 - H317

BRONOPOL (INN) **<1%**

CAS number: 52-51-7 EC number: 200-143-0

M factor (Acute) = 10

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335
Aquatic Acute 1 - H400

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Treat symptomatically.

Inhalation No specific recommendations.

Ingestion Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

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Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged and frequent contact may cause redness and irritation.

Eye contact May be slightly irritating to eyes. Prolonged contact may cause redness and/or tearing.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

Hazardous combustion products Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Avoid spilling. Avoid inhalation of vapours and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep only in the original container. Keep away from food, drink and animal feeding stuffs.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Isotridecanol, ethoxylated (CAS: 69011-36-5)

DNEL
Workers - Inhalation; Long term systemic effects: 294 mg/m³
Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
General population - Inhalation; Long term systemic effects: 87 mg/m³
General population - Dermal; Long term systemic effects: 1250 mg/kg/day
General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC
Fresh water; 0.074 mg/l
marine water; 0.007 mg/l
STP; 1.4 mg/l
Sediment (Freshwater); 0.604 mg/kg sediment dry weight
Sediment (Marinewater); 0.06 mg/kg sediment dry weight
Soil; 0.1 mg/kg soil dry weight

Coumarin (CAS: 91-64-5)

DNEL
Workers - Inhalation; Long term systemic effects: 6.78 mg/m³
Workers - Dermal; Long term systemic effects: 0.79 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.69 mg/m³
General population - Dermal; Long term systemic effects: 0.39 mg/kg/day
General population - Oral; Long term systemic effects: 0.39 mg/kg/day

PNEC
Fresh water; 19 µg/l
marine water; 1.9 µg/l
STP; 6.4 mg/l
Sediment (Freshwater); 0.15 mg/kg
Sediment (Marinewater); 0.015 mg/kg
Soil; 0.018 mg/kg

BRONOPOL (INN) (CAS: 52-51-7)

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DNEL	Workers - Inhalation; Long term systemic effects: 3.5 mg/m³ Workers - Inhalation; Short term Acute: 10.5 mg/m³ Workers - Inhalation; Long term local effects: 2.5 mg/m³ Workers - Inhalation; Short term Acute: 2.5 mg/m³ Workers - Dermal; Long term systemic effects: 2 mg/kg/day Workers - Dermal; Short term Acute: 6 mg/kg/day Workers - skin irritation/corrosion; Long term local effects: 8 µg/cm2 Workers - skin irritation/corrosion; Short term Acute: 8 µg/cm2 General population - Inhalation; Long term systemic effects: 0.6 mg/m³ General population - Inhalation; Short term Acute: 1.8 mg/m³ General population - irritation (respiratory tract); Long term local effects: 0.6 mg/m³ General population - irritation (respiratory tract); Short term Acute: 0.6 mg/m³ General population - Dermal; Long term systemic effects: 0.7 mg/kg/day General population - Dermal; Short term Acute: 2.1 mg/kg/day General population - skin irritation/corrosion; Long term local effects: 4 µg/cm2 General population - skin irritation/corrosion; Short term Acute: 4 µg/cm2 General population - Oral; Long term systemic effects: 0.18 mg/kg/day General population - Oral; Short term Acute: 0.5 mg/kg/day
PNEC	Fresh water; 0.01 mg/l marine water; 0.001 mg/l STP; 0.43 mg/l Sediment (Freshwater); 0.041 mg/kg sediment dry weight Sediment (Marinewater); 0.003 mg/kg sediment dry weight Soil; 0.5 mg/kg soil dry weight

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Wear chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash hands thoroughly after handling.
Respiratory protection	No specific requirements are anticipated under normal conditions of use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Creamy liquid. Emulsion.
Colour	White/off-white.
Odour	Characteristic. Fragrant.
pH	pH (concentrated solution): 6.0

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Flash point	Not available.
Relative density	1.000 @ 20°C
Solubility(ies)	Miscible with water.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 0.2 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat. Avoid freezing.

10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met.

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Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	Not relevant.

General information	No specific health hazards known.
Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed.
Skin contact	May be slightly irritating to skin. Prolonged skin contact may cause redness and irritation.
Eye contact	May be slightly irritating to eyes. Prolonged contact may cause redness and/or tearing.
Acute and chronic health hazards	No known chronic or acute health risks.
Route of exposure	Dermal

Toxicological information on ingredients.

Benzylhemiformal

Acute toxicity - oral

ATE oral (mg/kg)	500.0

Acute toxicity - dermal

ATE dermal (mg/kg)	1,100.0

Isotridecanol, ethoxylated

Acute toxicity - oral

Notes (oral LD_{50})	Harmful if swallowed.
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 > 16 mg/m³, Inhalation, Rat

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Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation No specific health hazards known.

Ingestion May cause discomfort.

Skin contact May cause skin irritation.

Eye contact May cause eye irritation.

Coumarin

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 520 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} 293 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 293 mg/kg, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

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Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

Carcinogenicity

Carcinogenicity	T25 > 100 mg/kg/day, Oral, Rat No T25 identified

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	Not relevant.

BRONOPOL (INN)

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	350.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 193 mg/kg, Oral, Rat REACH dossier information.
ATE oral (mg/kg)	350.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rat REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 > 0.588 mg/m³, Inhalation, Rat LC50 > 120 - < 1140 mg/m³, Inhalation, Rat REACH dossier information.

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Conclusive data but not sufficient for classification.

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Genotoxicity - in vivo	Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity	NOAEL 7 mg/kg/day, Oral, Rat NOAEL 0.2 - 0.5 %, Dermal, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Two-generation study - NOAEL 150 mg/kg/day, Oral, Rat F1b
Reproductive toxicity - development	Maternal toxicity:, Teratogenicity:, Embryotoxicity: - NOAEL: >/= 80 mg/kg/day, Oral, Rat Maternal toxicity:, Teratogenicity:, Embryotoxicity: - NOAEL: 10 mg/kg/day, Oral, Rat REACH dossier

Specific target organ toxicity - single exposure

STOT - single exposure	May cause respiratory irritation

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	Not relevant.

SECTION 12: Ecological information

Ecotoxicity Based on available data, the classification criteria are not met.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Ecotoxicity	Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

Isotridecanol, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 2.5 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, 72 hours: 2.5 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC_{50}, 3 hours: 140 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	EC_{20}, 30 days: 1.097 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	EC_{50}, 21 days: 0.74 mg/l, Daphnia magna
Toxicity to soil	> 1000 mg/kg soil dw (Eisenia fetida) 21 days

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Toxicity to terrestrial plants	EC0 > 10 mg/kg soil dw. for growth (Lepidum sativum) 17 days

Coumarin

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 2.94 mg/l, Pimephales promelas (Fat-head Minnow), QSAR
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 24.3 - 36.9 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 72 hours: 0.431 mg/l, QSAR EC_{50}, 96 hours: 1.452 mg/l, QSAR
Acute toxicity - microorganisms	IC_{50}, 3 days: > 640 mg/l, Activated sludge
Acute toxicity - terrestrial	LC_{50}, 48 hours: 21.7 mg/kg, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 30 days: 0.191 mg/l, QSAR
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.5 mg/l, QSAR

BRONOPOL (INN)

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 96 hours: 35.7 mg/l, Lepomis macrochirus (Bluegill) NOEC, 96 hours: 11.4 mg/l, Lepomis macrochirus (Bluegill) LC_{50}, 96 hours: 41.2 mg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 96 hours: 57.6 mg/l, Cyprinodon variegatus (Sheepshead minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1.4 mg/l, Daphnia magna EC_{50}, 48 hours: 3.5 mg/l, Acartia tonsa
Acute toxicity - aquatic plants	ErC50, 72 hours: 0.37 mg/l, Selenastrum capricornutum NOErC, 72 hours: 0.1 mg/l, Selenastrum capricornutum ErC50, 72 hours: 0.25 mg/l, Skeletonema costatum NOEC, 72 hours: 0.08 mg/l, Skeletonema costatum ErC50, 72 hours: 0.89 - 2.84 mg/l, Chlorella vulgaris NOErC, 72 hours: 0.32 mg/l, Chlorella vulgaris ErC50, 72 hours: > 1.0 mg/l, Scenedesmus subspicatus NOErC, 72 hours: 0.1 mg/l, Scenedesmus subspicatus ErC50, 72 hours: 0.67 mg/l, Scenedesmus subspicatus NOErC, 72 hours: 0.1 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC_{20}, 2.5 hours: 2 mg/l, Activated sludge EC_{20}, 30 minutes: ca. 20 mg/l, Activated sludge EC10, 16 hours: 0.5 mg/l, Pseudomonas putida
Acute toxicity - terrestrial	LC_{50}, 14 days: > 500 mg/kg, Eisenia Fetida (Earthworm) NOEC, 14 days: 12.8 mg/kg, Eisenia Fetida (Earthworm)

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Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 49 days: 21.5 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.53 (nominal); 0.27 (measured) mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Persistence and degradability	60 - 80% 28 days Rapidly degradable

Coumarin

Persistence and degradability	Rapidly degradable

BRONOPOL (INN)

Persistence and degradability	Rapidly degradable
Biodegradation	activated sludge - Degradation 99%: ~ 1 hour activated sludge - DT_{50} : 8.3 minutes REACH dossier information.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

Isotridecanol, ethoxylated

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	Log Koc: 4.73 QSAR data.

Coumarin

Bioaccumulative potential	No information required.
Partition coefficient	log Pow: 1.39

BRONOPOL (INN)

Bioaccumulative potential	Bioaccumulation is unlikely. REACH dossier information.
Partition coefficient	log Pow: 0.21 (pH = 5, T = 24°C +/- 1°C); 0.22 (pH = 7, T = 24°C +/- 1°C); -0.34 (pH = 9, T = 24°C +/- 1°C) REACH dossier information.

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

Ecological information on ingredients.

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Isotridecanol, ethoxylated

Adsorption/desorption coefficient - Log Koc: 2.376 - 2.645 @ 25°C QSAR

BRONOPOL (INN)

Adsorption/desorption coefficient Expected to have a low potential for adsorption.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB at > 0.1%

Ecological information on ingredients.

Isotridecanol, ethoxylated

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Coumarin

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

BRONOPOL (INN)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
Authorisations (SI 2020 No. 1577 Annex XIV)	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Quickshine Trigger

Abbreviations and acronyms used in the safety data sheet	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate. BOD: Biochemical Oxygen Demand. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. EC_{50}: 50% of maximal Effective Concentration. GHS: Globally Harmonized System. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code). ICAO: 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). LOAEC: Lowest Observed Adverse Effect Concentration. LOAEL: Lowest Observed Adverse Effect Level. NOAEC: No Observed Adverse Effect Concentration. NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. SVHC: Substances of Very High Concern. UVCB - Unknown or variable composition, complex reaction products or Biological materials. vPvB: Very Persistent and Very Bioaccumulative.
Classification procedures according to SI 2019 No. 720	Not classified for physical hazards., Not classified for health hazards., Not classified for environmental hazards.: Calculation method.
Issued by	Regulatory Specialist
Revision date	03/08/2022
Revision	6
Supersedes date	23/01/2020
SDS number	14907
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.