Panarex

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Reference number: 168118
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
Name : Quizalofop-P-tefuryl 40 g/L - EC
Trade name : Panarex

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

UPL Europe Ltd
Engine Rooms (1st Floor)
Birchwood Park
P.O. Box WA3 6YN
Warrington - United Kingdom
T +44 1925 819999 - F +44 (0) 1925 817425
sds.info@upl-ltd.com

1.4. Emergency telephone number

Emergency number : CARECHEM 24: +44 (0) 1235 239670

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	

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.

Precautionary statements (CLP) : 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.
P310 - Immediately call a POISON CENTER or doctor/physician.
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.

Extra phrases : SP1- Do not contaminate water with the product or its container.
SPo 02 - Wash all protective clothing after use.

2.3. Other hazards

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.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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 (ATE=1012 mg/kg bodyweight) 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 (ATE=1 mg/l/4h) 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

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use 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

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

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
Colour	:	clear. Yellow.
Appearance	:	Emulsifiable concentrate.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not applicable
Explosive properties	:	Not explosive.
Oxidising properties	:	Non oxidizing.
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	85 – 89 °C
Auto-ignition temperature	:	314.84 °C
Decomposition temperature	:	Not available
pH	:	5.8 (1 %, 23.5 °C)
Viscosity, kinematic	:	6.8 mm²/s (40 °C)
Solubility	:	Water: Emulsifiable
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	Not applicable
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	0.915 (20 °C)
Relative vapour density at 20 °C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable

Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

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.

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

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.

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.

Panarex	
Viscosity, kinematic	6.8 mm²/s (40 °C)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Not rapidly degradable

Panarex	
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

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

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

Panarex	
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. Endocrine disrupting properties

No additional information available

12.7. 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 or ID 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
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)	:	5l
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 (ADR)	:	TP1, TP29
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 and handling (ADR)	:	CV13
Hazard identification number (Kemler No.)	:	90
Orange plates	:	
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. (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. Maritime transport in bulk according to IMO instruments

Not applicable

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
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

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.