Provanto Smart Bug Killer Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 07/02/2022 Revision date: 13/12/2022 Supersedes version of: 07/02/2022 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Trade name : Provanto Smart Bug Killer Concentrate
UVP : 85399381
Product Code: : UK: 86601395; Ireland 86601397
Authorisation number : UK: MAPP 20368; Ireland (PCS): 05844

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Insecticide
Use of the substance/mixture : Plant Protection Products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SBM Life Science Ltd
Hyperion House
Fordham Road
Newmarket Suffolk
CB8 7XN
T +44 (0)1223 677611
sds@sbm-company.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	SBM Life Science	Hyperion House, Fordham Road, Newmarket, CB8 7XN	+44 (0)800 321 3079 (24 Hr)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) : Warning

Hazard statements (CLP)	:	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions. P273 - Avoid release to the environment. P391 - Collect spillage. P501 - Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty triple rinsed containers which can be disposed of by recycling or in the dustbin. Contact your local council for details.
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 (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Flupyradifurone (951659-40-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propylene carbonate (108-32-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Polydimethylsiloxane (63148-62-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
polyethylene glycol 400 (25322-68-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments	:	Concentrate SL

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propylene carbonate	CAS-No.: 108-32-7 EC-No.: 203-572-1 EC Index-No.: 607-194-00-1 REACH-no: 01-2119537232-48	>10	Eye Irrit. 2, H319
oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	CAS-No.: 9038-95-3 EC-No.: 618-542-7	0.1 – 5	Acute Tox. 3 (Inhalation), H331

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flupyradifurone	CAS-No.: 951659-40-8	2.12	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Move the affected person away from the contaminated area and into the fresh air. Place the affected person in the recovery position. Remove all contaminated clothing and footwear.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Make the affected person rest and keep at warm. Take medical advice.

First-aid measures after skin contact : Wash immediately with plenty of soap and water.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor.

First-aid measures after ingestion : Rinse mouth with water, do not induce vomiting, call a doctor.

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

No additional information available

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

Treat symptomatically. no specific antidote known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete 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 : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	:	Do not touch spilled material. Keep public away from danger area.

6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sewer system. Avoid sub-soil penetration.

6.3. Methods and material for containment and cleaning up

For containment	:	Collect spillage.
Methods for cleaning up	:	Take up liquid spill into absorbent material. Then wash with plenty of water.
Other information	:	Use closed containers for waste packaging and confinement.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with skin, eyes and clothing. Separate working clothes from town clothes. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Keep only in the original container in a cool well ventilated place. Store in a place accessible by authorised persons only. Protect from frost. Protect from sunlight. Keep container tightly closed.
Information on mixed storage	:	Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Take care of instructions on label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

propylene carbonate (108-32-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
Long-term - local effects, dermal	10 mg/m³
Long-term - systemic effects, inhalation	70.53 mg/m³
Long-term - local effects, inhalation	20 mg/m³

propylene carbonate (108-32-7)	
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.4 mg/m³
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - local effects, inhalation	10 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.9 mg/l
PNEC aqua (marine water)	0.09 mg/l
PNEC aqua (intermittent, freshwater)	9 mg/l
PNEC (Soil)	
PNEC soil	0.81 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	7400 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety goggles			EN 166

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing. Wear standard coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type suit. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hand protection:
Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,4 mm		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:
Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow. brown.
Appearance	:	Clear to cloudy.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not applicable
Explosive properties	:	Product is not explosive.
Oxidising properties	:	Not oxidising.
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 100 °C
Auto-ignition temperature	:	410 °C
Decomposition temperature	:	Not available
pH	:	5 – 7 (1%, 23°C)
Viscosity, kinematic	:	Not available
Solubility	:	soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	1.2 Flupyradifurone
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	1.18
Relative vapour density at 20 °C	:	Not available
Particle characteristics	:	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

Relative evaporation rate (ether=1) : <

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 under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Product must only be kept in the original packaging.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Provanto Smart Bug Killer Concentrate	
LD50 oral rat	> 2000 mg/kg (Test conducted with a similar formulation)
LD50 dermal rat	> 2000 mg/kg (Test conducted with a similar formulation)
LC50 Inhalation - Rat (Dust/Mist)	> 5.14 mg/l/4h (Test conducted with a similar formulation)

Flupyradifurone (951659-40-8)	
LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 4.671 mg/l/4h Determined in the form of a respirable aerosol. Highest attainable concentration.

propylene carbonate (108-32-7)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402)

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
LD50 oral rat	> 2000 mg/kg bodyweight

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	1 mg/l/4h

Skin corrosion/irritation : Not classified ((OECD 404 method))
pH: 5 – 7 (1%, 23°C)

Additional information : Test was carried out with a similar formulation

Flupyradifurone (951659-40-8)	
pH	6.6 (1%)

propylene carbonate (108-32-7)	
pH	7 (20 %, 20 °C)

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
pH	5 – 7 (10 %)

Serious eye damage/irritation : Not classified ((OECD 492 method))
pH: 5 – 7 (1%, 23°C)

Flupyradifurone (951659-40-8)	
pH	6.6 (1%)

propylene carbonate (108-32-7)	
pH	7 (20 %, 20 °C)

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
pH	5 – 7 (10 %)

Respiratory or skin sensitisation : Not classified ((OECD 429 method))

Additional information : Test was carried out with a similar formulation

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Flupyradifurone (951659-40-8)	
NOAEL (oral, rat, 90 days)	6 mg/kg bodyweight/day
STOT-repeated exposure	May cause damage to organs (muscle) through prolonged or repeated exposure.

propylene carbonate (108-32-7)	
NOAEL (oral, rat, 90 days)	> 5000 mg/kg bodyweight (OECD 408)

Aspiration hazard : Not classified

Flupyradifurone (951659-40-8)	
Viscosity, kinematic	Not applicable

propylene carbonate (108-32-7)	
Viscosity, kinematic	2.29 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

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

Provanto Smart Bug Killer Concentrate	
EC50 - Other aquatic organisms [1]	1.51 mg/l Chironomus riparius, 48h (Test conducted with a similar formulation)

Flupyradifurone (951659-40-8)	
LC50 - Fish [1]	> 74.2 mg/l Oncorhynchus mykiss, 96h
EC50 - Crustacea [1]	> 77.6 mg/l Daphnia magna, 48h
EC50 - Other aquatic organisms [1]	> 0.0617 mg/l Chironomus riparius, 48h
EC50 72h - Algae [1]	> 80 mg/l Raphidocelis subcapitata, 72h

propylene carbonate (108-32-7)	
LC50 - Fish [1]	> 1000 mg/l Cyprinus carpio, 96h
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna, 48h
EC50 72h - Algae [1]	> 929 mg/l Pseudokirchneriella subcapitata, 72h
EC50 96h - Algae [1]	> 929 mg/l Pseudokirchneriella subcapitata, 96h
ErC50 algae	> 900 mg/l Desmodesmus subspicatus, 72h

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
LC50 - Other aquatic organisms [1]	> 10000 mg/l (96 h)

12.2. Persistence and degradability

Flupyradifurone (951659-40-8)	
Persistence and degradability	Not readily biodegradable.

propylene carbonate (108-32-7)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0.046 g O_2/g substance
Chemical oxygen demand (COD)	1.29 g O_2/g substance

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
Persistence and degradability	not readily degradable in water.

12.3. Bioaccumulative potential

Provanto Smart Bug Killer Concentrate	
Partition coefficient n-octanol/water (Log Pow)	1.2 Flupyradifurone

Flupyradifurone (951659-40-8)	
Partition coefficient n-octanol/water (Log Pow)	1.2
Bioaccumulative potential	Not potentially bioaccumulable.

propylene carbonate (108-32-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.48 – -0.41
Bioaccumulative potential	Not potentially bioaccumulable.

oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	
Bioaccumulative potential	Not potentially bioaccumulable.

12.4. Mobility in soil

Flupyradifurone (951659-40-8)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	93
Ecology - soil	Low mobility (soil).

propylene carbonate (108-32-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.81
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

Component	
Flupyradifurone (951659-40-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propylene carbonate (108-32-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
oxirane, 2-methyl-, polymer with oxirane, monobutyl ether (9038-95-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Polydimethylsiloxane (63148-62-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
polyethylene glycol 400 (25322-68-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

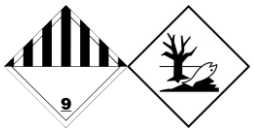
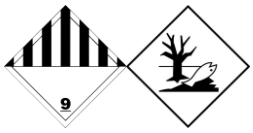
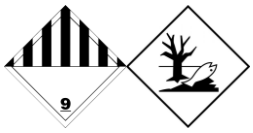
Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Handle uncleaned empty containers as full ones. Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty triple rinsed containers which can be disposed of by recycling or in the dustbin. Contact your local council for details. Do not mix with other wastes. Avoid sub-soil penetration.

European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone)	Environmentally hazardous substance, liquid, n.o.s. (Flupyradifurone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Flupyradifurone), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flupyradifurone), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	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	Dangerous for the environment: 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 (ADR)	:	-
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)	:	TP1, 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

Inland waterway transport

Classification code (ADN)	:	M6
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	M6
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Special packing provisions (RID)	:	PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1, TP29
Tank codes for RID tanks (RID)	:	LGBV
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW13, CW31
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	90

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

Other information, restriction and prohibition regulations : Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
3(b)	propylene carbonate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

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.

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

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			
Section	**Changed item**	**Change**	**Comments**
1.1	Authorisation number	Added	

Abbreviations and acronyms:	
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

Abbreviations and acronyms:	
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
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.

Full text of H- and EUH-statements:	
H411	Toxic to aquatic life with long lasting effects.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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.