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# syngenta

3 FUNGICIDE GROUP

Product registration no. MAPP 16456 PCS No. 05206

A suspension concentrate containing 125 g/l (11.3% w/w) paclobutrazol and 250 g/l (22.5% w/w) difenoconazole

A plant growth regulator and fungicide with contact and systemic activity against Phoma leaf spot and Light leaf spot (Pyrenopeziza brassicae) in winter oilseed rape.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work. (UK only)

Authorisation Holder & UK Marketing Company	Irish Marketing Company
Syngenta UK Limited	Syngenta Ireland Ltd.,
CPC 4, Capital Park,	Block 6, Cleaboy Business
Fulbourn Cambridge	Park, Old Kilmeaden Road,
CB21 5XE	Waterford
Tel: +44 (0) 1223 883400	Tel: (051) 377203

In case of toxic or transport emergency ring +44 (0)1484 538444 any time

PROTECT FROM FROST STORE IN A COOL, DRY PLACE

This product label is compliant with the CPA Voluntary Initiative (VI) Voluntary quidance, (UK only) Initiative



#### TOPREY®

# FOR PROFESSIONAL LISE A suspension concentrate containing 125 g/l (11.3% w/w) packphutrazol and 250 g/l (22.5% w/w) difenoconazole

To avoid risks to human health and the environment comply with the instructions for use.





#### Warning

Suspensed a damaging the unborn child.

Vary tox: to aquatic life with long lasting effects.

rise a out of reach of children

Ob pir special instructor's before use.

Do not handle with all safety precautions have been read and understood.

Vear protective alloyes/ protective clothing/ eye protection/ face protection/ hearing protection.

If exposer or concerned: Get medical advice/attention.

Collect sp "lag a

Dispuse of contents/container to a licensed hazardous-waste disposal contractor or collection site except for

trip e rin sed empty clean containers which can be disposed of as non-hazardous waste.

Con ains 1.2-benzoisothiazol-3-one. May produce an allergic reaction.

MAPP 16456 PCS No. 05206 UFI: Y0H7-63SF-K003-WFH4

#### IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Сгор	Maximum individual dose (litres product/hectare)	Maximum no. of treatments	Latest timing of application
Oilseed rape (winter)	0.35	1 per crop	Up to GS 55

# Other specific restrictions:

To be used when both disease control and plant growth regulation are required.

READ THE LABEL BEFORE USE, USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE, FOLLOW THE CODE OF PRACTICE FOR USING PLANT

Product names marked ® or ™, the ALLIANCE FRAME=

This leaflet is part of the approved Product Label.

#### SAFETY PRECAUTIONS

#### (a) Operator protection

DO NOT APPLY by hand held equipment.

WASH SPI ASHES from skin immediately

WASH HANDS AND EXPOSED SKIN before meals and after work.

FOR USE VIA TRACTOR MOUNTED/TRAILED HORIZONTAL BOOM SPRAYER ONLY.

# (b) Environmental protection (LERAP scheme applies to the UK only)

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.



DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

Do not contaminate water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

#### (c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually instructions. If three times.

#### DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions ....nin this section must be carefully read in order to obtain safe and successful use of this product.

A suspension concentrate containing 125 g/l paclobutrazol and 250 g/l difenoconazole. TOPREX contains a plant growth regulator (paclobutrazol) for crop height reduction and lodging control and fungici (difenoconazole) with contact and systemic activity against Phoma leaf spot and Light leaf spot (Pyrenopeziza brassicae) in winter oilseed rape. TOPREX must only be used when both disease control and plant growth regulation are required simultaneously. If disease control and growth regulation are not required at the same time, appropriate fungicide products or growth regulator products should be used separately instead.

Please consult seed contract customer, before using TOPREX on crops to be grown for seed.

#### DISEASES CONTROLLED

TOPREX controls moderate infections of Phoma leaf spot and Light leaf spot (Pyrenopeziza brassicae) in winter oilseed rape. Inspect crops to assess disease development prior to spraying. Apply when disease thresholds have been breached according to appropriate disease support systems.

#### CROP SPECIFIC INFORMATION

# Winter oilseed rape

#### Phoma leaf spot

Apply to actively growing crops. Stem canker present as a result of autumn infection will not be controlled.

#### Light leaf snot (Pyrenoneziza hrassicae)

Apply in early spring from the onset of stem extension, depending on disease pressure.

#### Timing of application

Disease control considerations

Apply in spring to actively growing crops with a large canopy where disease thresholds are breached and monitoring systems indicate a risk of disease development. In high disease risk situations the use of additional difenoconazole fungicide (i.e. tank mixure with PLOVER 0.15 I/ha) may be required to enhance disease control.

#### Plant growth regulation considerations

Apply in pring from early stem extension to green bud to shorten the crop, reduce lodging and protect yield.

In sp. 19, pill t growth regulation is not appropriate in backward crops where the crop GAI (Green Area Index) is under 1.0 in March or 2.0 in April (see HGCA Topic Sheet No. 82; Managing forward crops of oilseed rape).

A. vid use of TOPREC in cold conditions, when the crop is not growing, as plant growth regulation may be reduced.

# MIXING A 'D : PRAYING

#### Mixina

Make sure the sprayer is set to give an even application at the correct volume.

Fill are spray tank with half the required volume of clean water and start agitation. Add the required amount of TC 2RF (and continue agitation while adding the rest of the water

In Ising PLOVER to supplement TOPREX, each product should be added separately to the bulk of the water in the spray tank, and thoroughly mixed before adding the partner product. Maintain constant agitation of the mixture until spraying is completed.

Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles two to three times with clean water until the foam and all traces of the formulation have been removed.

# Spray Volume

Apply TOPREX to winter oilseed rape in 200 litres water per hectare

# Spraying

Apply as a MEDIUM quality spray as defined by BCPC. A spray pressure of 2-3 bars is preferred.

# **Following Crops**

In normal rotations, only cereals may be sown after 'TOPREX' treated winter oilseed rape. In the case of crop failure following 'TOPREX' treatment, cereals may be used as the replacement crop, as long as 1 month has elapsed since the last 'TOPREX' application. Broad-leaved crops (including winter oilseed rape) should not be sown for at least 16 months' after the last 'TOPREX' treatment.'

\* Solanaceous crops (potatoes and tomatoes) should not be sown within 3 years of the last 'TOPREX' treatment.

#### COMPATIBILITY

TOPREX may be used in a 2-way mixture with PLOVER (UK only).

#### Section 6 of the Health and Safety at Work Act Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations)

This product label provides information on specific pesticidal use of the product, do not use otherwise unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "Extension of Use" approval or is otherwise permitted under the Plant Product Regulations

The information on this label is based on the best available information including data from test results.

#### Safety Data Sheet v14.0

#### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1 1 Product Identifier

Product Name:TOPREX Design Code: A14049A

Product Registration Number : MAPP 16456

Unique Formula Identifier (UFI): Y0H7-63SE-K003-WFH4

# 1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Use: Fungicide

Recommended restrictions on use: professional use

# 1.3 Details of the supplier of the safety data sheet Company: Syngenta UK Ltd

CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE

Telephone: +44 (0) 1223 883400 Telefax : +44 (0) 1223 882195

E-mail address of person responsible for the SDS; customer.services@syngenta.com

## 1.4 Emergency telephone number

Emergency phone No.: +44 1484 538444

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720. and UK SI 2020/1567)

Reproductive toxicity, Category 2 - H361d: Suspected of damaging the unborn child.

Short-term (acute) aquatic hazard. Category 1 - H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1 - H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Labol alamente

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and LIK SI 2020/1567)

# Hazard pictograms





Signal word Warning Suspected of harming the unborn child. Hazard statements H361d H410 Very toxic to aquatic life with long lasting effects

Keep out of reach of children. Precautions / P102 statem, nts P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood

Wear protective gloves/ protective clothing/ eve protection/ face protection/ hearing protection.

308+D313 IF exposed or concerned. Get medical advice/ attention.

P391 Collect Spillage P501

Dispose of contents/container to a licensed hazardouswaste disposal

contractor or collection site except for empty triple rinsed clean containers which can be disposed of as nonhazardous waste.

H. zarc ous components which must be listed on the label:

#### Payrobutrazol (ISO) Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

EUH208 Contains 1.2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/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.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

# 3.2 Mixtures

#### Hazardous Component(s)

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Difenoconazole	119446-68-3	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 20 - < 25

Exposure time: 28 d Species: Americamysis

M-Factor (Chronic aquatic toxicity):

naclobutrazol (ISO):

Toxicity to fish : LC50 (Oncorbynchus mykiss (rainhow trout)): 27.8 mg/L

Evnosure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 23.6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 29 mg/l

Evnosure time: 48 h

FC50 (Mysidonsis bahia (opossum shrimp)): > 9 mg/l

Exposure time: 72 h

FrC50 (Raphidocelis subcapitata (freshwater green alga)): > 15.2 mg/l Toxicity to algae/aguatic plants:

Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 0.0283 mg/l

Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0.002 mg/L

End point: Growth rate Exposure time: 7 d

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.022 mg/l

Exposure time: 14 d NOEC (Myriophyllum spicatum (Eurasian watermilfoil)): 0.0028 m //

End point: Growth rate Exposure time: 14 d

M-Factor (Acute aquatic toxicity):

Toxicity to fish (Chronic toxicity): NOEC: 0.049 mg/l Exposure time: 32 d

Species: Pimephales promelas (fathead minnov

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity): NOEC: 0.32 ma/l

Exposure time: 22 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity):

Ecotoxicology Assessment

Acute aquatic toxicity: Very toxic to aquatic life.

poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1-phenylethyl)phenoxyl-, ammonium salt:

LC50 (Oncorhynchus mykiss (rainbow trout)): 33 mg/l Toxicity to fish:

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 24 mg/l

Exposure time: 48 h toluene:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertehrates: 1 2-henzisothiazol-3(2H)-one-

EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l

Exposure time: 48 h

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainhow trout)): 2.18 mg/L

Evnosura tima: 96 h

Toxicity to daphnia and other aquatic invertebrates:

FC50 (Daphnia magna (Water flea)): 2 94 mg/l

Exposure time: 48 h

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.15 mg/l Toxicity to algae/aguatic plants:

Evnosura tima: 72 h FC10 (Banhidocelis subcapitata (freshwater green alga)): 0.04 mg/l

End point: Growth rate Exposure time: 72 h

M-Facto, (Acute aquatic toxicity): Toxi 'to ish (Chronic toxicity):

NOFC: 0.3 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

is xicity to daphnia and other quatic invertebrales

(Chronic toxi atv. NuFC: 1.7 mg/l

Exposure time: 21 d Species: Daphnia (water flea)

12.2 Persicience and degradability

Components: di enc conazole:

Biodegradability: Result: Not readily biodegradable.

Stability in water: Degradation half life: 1 d Remarks: Product is not persistent

paclobutrazol (ISO):

Biodegradability: Result: Not readily biodegradable. Stability in water: Degradation half life: 167 - 1.378 d

Remarks: Persistent in water toluene.

Biodegradability: Result: Readily biodegradable.

1.2-benzisothiazol-3(2H)-one:

Biodegradability: Result: rapidly degradable

12.3 Bioaccumulative potential

Components: difenoconazole:

Bioaccumulation: Remarks: High bioaccumulation potential. Partition coefficient: noctanol/water: log Pow: 4.4 (25 °C)

paclobutrazol (ISO):

Bioaccumulation : Bemarks: Does not bioaccumulate

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Paclobutrazol (ISO)	76738-62-0 603-239-00-4	Acute Tox.4; H302 Acute Tox.4; H302 Eye Irrit. 2; H319 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), alpha-sulfo- omega-[tris(1-phenylethyl)phenoxy]- ammonium salt	119432-41-6	Aquatic Chronic3; H412	>= 1 - < 2.5
methanol	67-56-1 200-659-6 603-001-00-X 01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 specific concentration limit STOT SE 1; H370 >= 10 % STOT SE 2; H371 >= 3 - < 10 %	>= 0.1 - < 1
toluene	108-88-3 203-625-9 601-021-00-3 01-2119471310-51	Flam. Liq. 2: H225 Skin Irrit. 2: H315 Repr. 2: H361fd STOT SE 3: H336 (Central nervous system STOT RE 2: H373 Asp. Tox. 1; H304	>= 0.1 - < +
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0.05 %	>= 0 02.7 - <[ 05*
Substances with a workplace exposure			
propane-1,2-diol	57-55-6 200-338-0 01-2119456809-23		>= 1 - < 10

Substances for which there are Community workplace exposure limits For the full text of the H-statements mentioned in this Section, see Section 16.

#### 4 FIRST-AID MEASURES

#### 4.1 Description of first aid measures

General advice: Have the product container, label or Safety Data Sheet with you when calling the emergency

If inhaled: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest. Call a physician or poison control centre immediately.

In case of skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician, Wash contaminated clothing before re-use

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses. Immediate medical attention is required.

If swallowed if swallowed seek medical advice immediately and show this container or label. Do not induce

If swallowed: If swallowed, seek medical advice immediately and show this container or label. Do not induc vomiting; contains petroleum distillates and/or aromatic solvents.

#### 4.2 Most Important symptoms and effects, both acute and delayed

Symptoms: Astriration may cause pulmonary oedema and pneumonitis.

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

Treatment. There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains points, um distillates and/or aromatic solvents.

# 5. SIF 6-FIGHTING ME/ SURES

#### : 1 Extinguishing media

Suitable extinguishing media: Extinguishing media - small fires

Use water or, w alcohol-resistant foam, dry chemical or carbon dioxide. Extinguis hinc media - large fires

Alcohol-resistant foam or Water spray

Ur suitable 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

Specific hazards during firefighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

# 5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus. Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to protective measures listed in sections 7 and 8.

# 6.2 Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

#### 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke, For personal protection see section 8.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food dripk and animal feedingstuffs

Further information on storage stability: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

#### 7.3 Specific end use(s)

Specific use(s): For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

# Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
difenoconazole	119446-68-3	TWA	5 mg/m <sup>3</sup>	Syngenta
paclobutrazol (ISO)	76738-62-0	TWA	5 mg/m <sup>3</sup>	Syngenta
propane-1,2-diol	57-55-6	TWA (particles)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Total vapour and particles)	150 ppm	GB EH40
			474 mg/m <sup>3</sup>	
methanol	67-56-1	TWA	200 ppm	GB 51110
			266 mg/m <sup>3</sup>	
		gh the skin. The assigned substand	ces are those for which the	re a concerns that
dermal absorption will lea	d to systemic toxi			
		STEL	250 ppm	GB EH40
			333 mg/m <sup>3</sup>	
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that				
dermal absorption will lea	d to systemic toxi			
		TWA	200 ppm	2006/15/E
			260 mg/m <sup>3</sup>	
Further information: Indic	ative, Identifies the	possibility of significant uptake the	rough the skin	
toluene	108-88-3	TWA	50 ppm	GB EH40
			191 mg/m <sup>3</sup>	
		gh the skin. The assigned substand	ces are those for which the	re are concerns that
dermal absorption will lea	d to systemic toxi			
		STEL	100 ppm	GB EH40
			384 mg/m <sup>3</sup>	
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that				
dermal absorption will lea	d to systemic toxi			
		TWA50 ppm 192 mg/m3	2006/15/EC	
Further information: Indic	ative. Identifies the	possibility of significant uptake th	rough the skin	

Components (	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
		STEL100 ppm 384 mg/m3	2006/15/EC	

Further information: Indicative, Identifies the possibility of significant untake through the skin

# Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	30 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
1,2-benzisothiazol-3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m <sup>3</sup>
. /	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg
methanol	Workers	Dermal	Short-term exposure, Systemic effects	40 mg/kg
	Workers	Inhalation	Short-term exposure, Systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Short-term exposure, Local effects	260 mg/m <sup>3</sup>
/	Workers	Dermal	Long-term systemic effects	40 mg/kg
	Workers	Inhalation	Long-term systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	260 mg/m <sup>3</sup>
	Consumers	Dermal	Short-term exposure, Systemic effects	8 mg/kg
70	Consumers	Inhalation	Short-term exposure, Systemic effects	50 mg/m <sup>3</sup>
()	Consumers	Oral	Short-term exposure, Systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term local effects	50 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	50 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Short-term exposure, Local effects	50 mg/m <sup>3</sup>
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	384 mg/kg
	Workers	Inhalation	Acute local effects	384 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	384 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	192 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	8.13 mg/kg
	Consumers	Dermal	Long-term systemic effects	226 mg/kg
	Consumers	Inhalation	Acute systemic effects	226 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	226 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	56.5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	56.5 mg/m <sup>3</sup>

# Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l

Substance name	Environmental Compartment	Value
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.2 mg/kg
	Fresh water sediment	572 mg/kg
	Soil	50 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
	Soil	3 mg/kg
methanol	Fresh water	154 mg/l
	Marine water	15.4 mg/l
	Soil	22.5 mg/kg
	Sewage treatment plant	100 mg/l
toluene	Fresh water	0.68 mg/l
	Marine sediment	16.39 mg/kg
	Sewage treatment plant	3.61 mg/l
	Intermittent use/release	0.68 mg/l
	Marine water	0.68 mg/l
	Fresh water sediment	16.39 mg/kg
	Soil	2.89 mg/kg

# 8.2 Exposure controls

# **Engineering Measures**

Containment and/or segregation is the most reliable technical protection measure if exposing cannot be eliminated. The extent of these protection measures depends on the actual risks in use in air concentrations below occupational exposure standards. Where necessary, seek additional occupational hydiene advice.

Personal protective equipment

Eye protection: No special protective equipment required.

Hand protection
Material: Nitrile rubber
Break through time: > 480 min
Glove thickness: 0.5 mm

Remarks: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as annormate: Imprevious clothing

Respiratory protection: No personal respiratory protective equipment normally required. When workers are

facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : off-white to beige
Odour : characteristic

Odour Threshol : No data available pH : 4 - 1 Concentration: 1 % w/v Melting no. t/range : No data available Pillin, point/boiling range : No data available

Flash point: Method: Pensky-Martens closed cup, does not flash

E apo ation rate : 1 o de la available

Upper explor ior, 'imit / Upper flammability limit: No data available

Relative /apc ur density : No data available

Density: 1.1 g/cm³ (20 °C)
Witer solubility: No data available

Sclubil ty in other solvents : No data available

Fartition coefficient: noctanol/ water: No data available

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Viscosity, dynamic : 36.2 - 263 mPa.s (40 °C). 49.1 - 317 mPa.s (20 °C)

Viscosity, kinematic : No data available Explosive properties : Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

9.2 Other Information

Particle size : No data available

#### 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

None reasonably foreseeable.

# 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

#### 10.5 Incompatible materials

Materials to avoid . None known

# 10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known

#### 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact. Eve contact

Acute toxicity Product:

Acute oral toxicity: LD50 (Bat\_female): > 2 000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC50 (Bat\_male and female): > 5.05 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

LD50 (Bat\_male and female): > 2 000 mg/kg Acute dermal toxicity :

Assessment: The substance or mixture has no acute dermal toxicity

Components: difenoconazole:

Acute oral toxicity: LD50 (Rat. male and female): 1,453 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion

Acute inhalation toxicity: LC50 (Rat. male and female): > 3.300 mg/m3

Exposure time: 4 h

Test atmosphere dust/mist

Assessment: The substance or mixture has no acute inhalation toxic ty

LD50 (Rabbit, male and female): > 2.010 mg/kg Acute dermal toxicity :

Assessment: The substance or mixture has no acute dermal to ucity paclobutrazol (ISO):

Acute oral toxicity: LD50 (Rat. female): 1.336 mg/kg

Acute toxicity estimate: 490 mg/kg

Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity: LC50 (Rat. female): 3.13 mg/l

Exposure time: 4 h

Test atmosphere dust/mist

Acute toxicity estimate: 3.13 mg/l Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 (Rat): > 2.000 mg/kg Acute dermal toxicity :

Assessment: The substance or mixture has no acute dermal toxicity

methanol:

Assessment: The component/mixture is toxic after single ingestion. Acute oral toxicity: Acute inhalation toxicity: Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity: Assessment: The component/mixture is toxic after single contact with skin.

1.2-benzisothiazol-3(2H)-one:

Acute oral toxicity: LD50 (Rat, male): 670 mg/kg Acute dermal toxicity :

LD50 (Rat. male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

Product:

Species · Rabbit

Result · No skin irritation Components:

difenoconazole: Species : Dabbit

Result : No ekin irritation

paclobutrazol (ISO): Species · Rabbit

Result · No skin irritation

toluene: Species · Rabbit

Result : Irritating to skin

1.2-benzisothia zol-3(2H)-one:

Species Rabbit

Result · Mud skin irritation

S rio, s eve damage/eve irritation

∂rocluc₁

\* ecie : Rabbit Re. Lit: No eve \_rita\_ior. Components

difenoccinaz of a: Species : p. b. "

Result: critation to eyes, reversing within 7 days

paclobutrazol (ISO): Snecus : Rabbit

Result. Irritation to eyes, reversing within 7 days

1.?-benzisothiazol-3(2H)-one:

Species · Rabbit

Result: Risk of serious damage to eyes. Respiratory or skin sensitisation

Product:

Test Type : Buehler Test Species : Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Components: difenoconazole:

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

paclobutrazol (ISO): Species : Guinea pig

Result : Does not cause skin sensitisation.

1.2-benzisothiazol-3(2H)-one:

Result: Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity Components:

difenoconazole:

Germ cell mutagenicity-Assessment: Animal testing did not show any mutagenic effects.

#### naclobutrazol (ISO):

Germ cell mutagenicity-Assessment: Animal testing did not show any mutagenic effects mothanol:

Germ cell mutagenicity-Assessment: Animal testing did not show any mutagenic effects

1.2-benzisothiazol-3(2H)-one:

Germ cell mutagenicity-Assessment: Weight of evidence does not support classification as a germ cell mutagen

#### Carcinogenicity Components:

difenoconazole:

Carcinogenicity -Assessment: Weight of evidence does not support classification as a carcinogen paclobutrazol (ISO):

Carcinogenicity -Assessment: No evidence of carcinogenicity in animal studies.

methanol

Carcinogenicity -Assessment: No evidence of carcinogenicity in animal studies.

# Reproductive toxicity

Components:

difenoconazole:

Reproductive toxicity -Assessment: No toxicity to reproduction

paclobutrazol (ISO):

Reproductive toxicity -Assessment: Some evidence of adverse effects on development, based on animal experiments. Animal testing did not show any effects on fertility.

methanol:

Benroductive toxicity -Assessment: No toxicity to reproduction

toluene.

Reproductive toxicity -Assessment: Some evidence of adverse effects on development, based on animal experiments

#### STOT - single exposure

Components:

methanol:

Target Organs: Eves. Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxican single exposure

category 1. toluene:

Assessment: The substance or mixture is classified as specific target organ toxicant, single even sure category 3 with narcotic effects.

# STOT - repeated exposure

Components:

toluene:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure. category 2.

Repeated dose toxicity

Components:

difenoconazole:

Remarks: No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity Components:

toluene: May be fatal if swallowed and enters airways.

# 12 ECOLOGICAL INFORMATION

12 1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainhow trout)): 7.1 mg/L Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 4.8 mg/l Exposure time: 48 h

Toxicity to algae/aguatic plants:

FrC50 (Raphidocelis subcapitata (freshwater green alga)): 3.2 mg/l

Exposure time: 96 h

NOFC (Raphidocelis subcapitata (freshwater green alga)): 0.1 mg/l

Exposure time: 96 h ErC50 (Lemna gibba (gibbous duckweed)): 0.45 mg/l

Exposure time: 7 d NOEC (Lemna gibba (gibbous duckweed)); 0.027 mg/l

LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l

Exposure time: 7 d

Components: dife accuazole:

vicity to fish

Toxicity to darph is and other aquatic in orte or ites:

EC50 (Daphnia magna (Water flea)): 0.77 mg/l

Exposure time: 48 h EC50 (Americamysis): 0.15 mg/l

Exposure time: 96 h

Exposure time: 96 h

To, icity to algae/aguatic plants:

EC50 (Navicula pelliculosa (Freshwater diatom)): 0.091 mg/l

Exposure time: 72 h NOEC (Navicula pelliculosa (Freshwater diatom)): 0.053 mg/l

Exposure time: 72 h ErC50 (Desmodesmus subspicatus (green algae)): 0.0876 mg/l

Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 0.015 mg/l

End point: Growth rate Exposure time: 72 h

M-Factor (Acute aquatic toxicity): Toxicity to microorganisms:

EC50 (activated sludge): > 100 mg/l Exposure time: 3 h

Toxicity to fish (Chronic toxicity):

NOEC: 0.0076 mg/l Exposure time: 34 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity):

NOEC: 0.0056 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

NOEC: 0.0023 mg/l

#### toluene:

Bioaccumulation : Remarks: Does not bioaccumulate.

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation: Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

Distribution among environmental compartments: Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 149 - 187 d Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

paclobutrazol (ISO):

Distribution among environmental compartments: Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 43 - 634 d

Percentage dissipation: 50 % (DT50)

Remarks: Persistent in soil.

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment: This substance/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.

#### Components:

#### difenoconazole:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### paclobutrazol (ISO):

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PB.)
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### methanol:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (r 3T). This substance is not considered to be very persistent and very bioaccumulating (vPV).

# toluene:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT)

# This substance is not considered to be very persistent and very bioaccumulating (vPvB).

# 1,2-benzisothiazol-3(2H)-one:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

# 12.6 Other adverse effects

# Product:

Endocrine disrupting potential: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

**Product:** Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

# 14.1 UN number

ADR: UN 3082 RID: UN 3082 IMDG: UN 3082 IATA: UN 3082

#### 14.2 UN proper shipping name

ADP - FNV. RONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND

PACLOBUTHAZOL)

RID . EN /IRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND

CLC BUTRAZOL

ML 3: ENVIRONME. TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND

PACLOBUTP 42 7L)

iATA: Environr lerually hazardous substance, liquid, n.o.s. (DIFENOCONAZOLE AND PACLOBUTRAZOL)

# 14.3 Tra isport nazard class(es)

RIP . 9 IN DG 9

# 14.4 Packing group

. ADR

Packing group : III Classification Code : M6

Hazard Identification Number: 90

Labels: 9

Tunnel restriction code: (-)

RID

Packing group : III
Classification Code : M6

Hazard Identification Number: 90

Labels: 9

Packing group : III Labels : 9 EmS Code : F-A. S-F

IATA (Cargo)

Packing instruction (cargo aircraft): 964

Packing instruction (LO) · Y964

Packing group : III Labels : Miscellaneous IATA (Passenger)

Packing instruction (passenger aircraft): 964

Packing instruction (LO) : Y964 Packing group · III Labels : Miscellaneous

14.5 Environmental hazarde

ADR

Environmentally hazardous : ves

Environmentally hazardous : ves

IMDG

Marine pollutant : ves IATA (Passenger)

Environmentally hazardous : ves

IATA (Cargo)

Environmentally hazardous : ves 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet Transportation classifica on may vary by mode of transportation, package sizes, and variations in regional or country regulations

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

Not applicable for product as supplied.

#### 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance of metrics Relevant FLI provisions transposed through retained FLI law REACH - Restrictions on the majurfacture placing on the market and use of certain dangerous substances, mixtures and article mannex XVIII): Conditions of restriction for the following entries should be considered: Number on 1st 2 m strianol (Number on list 69) toluene (Number on list 48)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not a plic bl. Regulation (EC) No 1005/2009 on substances that deplete the ozone laver; Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast); Not applicable UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not applicable Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Quantity 1 Quantity 2 E1 ENVIRONMENTAL HAZARDS 100 t 200 t

Other regulations:

# 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

#### 16 OTHER INFORMATION

#### Full text of H-Statements

H225 · Highly flammable liquid and vapour

H301 · Toxic if swallowed H302 · Harmful if swallowed

H304 · May be fatal if swallowed and enters airways

H311 · Toxic in contact with skin

H315 · Causes skin irritation

H317 · May cause an allergic skin reaction

H318 : Causes serious eve damage. H319: Causes serious eve irritation.

H331 · Toyic if inhaled

H332 · Harmful if inhaled

H336: May cause drowsiness or dizziness.

H361d · Suspected of damaging the unborn child

H372: Causes damage to organs

H<sub>2</sub>73. May cause damage to organs through prolonged or repeated exposure.

H4C): Very toxic to acquatic life.

F 10. Very toxic to say tic life with long lasting effects. 14) 1 : Toxic to ac yayı: life with long lasting effects H412 · Harm ut aquatic life with long lasting effects

# Full text of other abbreviations

Acute Tr x : cute toxicity

Aquatic Acute: Short-term (acute) aquatic hazard Acuai c Chronic : Long-term (chronic) aquatic hazard

As a Trix · Aspiration hazard E e Dam. : Serious eve damage

Eve Irrit.: Eve irritation

Flam Lig : Flammable liquids Repr.: Reproductive toxicity Skin Irrit.: Skin irritation

Skin Sens : Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure STOT SE: Specific target organ toxicity - single exposure

2006/15/EC: Europe. Indicative occupational exposure limit values

GB EH40 : UK, EH40 WEL - Workplace Exposure Limits

2006/15/EC / TWA : Limit Value - eight hours

2006/15/EC / STEL : Short term exposure limit

GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period) GB EH40 / STEL: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials: bw - Body weight:

CLP - Classification Labelling Packaging Regulation: Regulation (FC) No. 1272/2008: CMR - Carcinogen Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): FCHA - Furopean Chemicals Agency: FC-Number - Furopean Community number: ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): FrCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: 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: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: NO(A)FC - No Observed (Adverse) Effect Concentration: NO(A)FL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PRT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (O)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration Evaluation Authorisation and Restriction of Chemicals: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self- Accelerating Decomposition Temperature SDS - Safety Data Sheet: SVHC - Substance of very high concern: TCSI - Taiwan Chemical Substance Inventory: TECI - Thailand Existing Chemicals Inventory: TSCA - Toxic Substances Control Act (Unit. d States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Danger, us Goods: vPvB - Very Persistent and Very Bioaccumulative

# **Further information**

Classification of the mixture: Classification procedure: Repr. 2 H361d Calculation method

Aquatic Acute 1 H400 Calculation method

Aquatic Chronic 1 H410 Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, inform ation and belief at the date of its publication. The information given is designed only as a guidance for safe , andling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.