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

1.1 Product identifier

Product name FORTUNE

Other means of identification

Product code 50001236

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

Use of the Sub- : Adjuvant for plant protection products

stance/Mixture

Recommended restrictions

on use

: Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address FMC Agro Limited

Rectors Lane, Pentre

Flintshire CH5 2DH United Kingdom

Telephone: + 44 1244 537370 E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call: England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency: England and Wales: 111 Scotland: 84 54 24 2424

### **SECTION 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)

Serious eye damage, Category 1 H318: Causes serious eye damage.

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Skin sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

#### 2.2 Label elements

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

Hazard pictograms





Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P261 Avoid breathing mist or vapours.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and

soap

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physi-

cian.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

Disposal:

P501 Dispose of contents and/or container in accordance

with hazardous waste regulations.

Hazardous components which must be listed on the label:

Alcohols, C12-15, ethoxylated

butan-1-ol

**Additional Labelling** 

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

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#### 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.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10 - < 30
butan-1-ol	71-36-3 200-751-6 603-004-00-6	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system)	>= 1 - < 10
2,2' -oxybisethanol	111-46-6 203-872-2	Acute Tox. 4; H302	>= 1 - < 10
	603-140-00-6		

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Take victim immediately to hospital.

If on skin, rinse well with water. If on clothes, remove clothes.

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In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Carbon oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

For disposal considerations see section 13.

# 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

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 ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Keep in suitable, closed containers for disposal.

# 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma,

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allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of

ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological

safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

# 7.3 Specific end use(s)

Specific use(s) : The product may be used as adjuvant for plant protection

products only.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
2,2' -oxybisethanol	111-46-6	TWA	23 ppm 101 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			

# **Derived No Effect Level (DNEL):**

	` '			
Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
butan-1-ol	Workers	Inhalation	Long-term local ef-	310 mg/m3
			fects	
	Consumers	Inhalation	Long-term local ef-	155 mg/m3
			fects	
	Consumers	Inhalation	Long-term systemic	55.357 mg/m3
			effects	

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Consumers	Dermal	Long-term systemic effects	3.125 mg/kg
Consumers	Oral	Long-term systemic effects	1.562 mg/kg

### **Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
butan-1-ol	Fresh water	82 mg/l
	Intermittent use/release	2.25 mg/l
	Marine water	0.0082 mg/l
	Sewage treatment plant	2476 mg/l
	Fresh water sediment	0.324 mg/kg dry weight (d.w.)
	Marine sediment	0.0324 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Protective measures : Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

Ensure that eye flushing systems and safety showers are

located close to the working place. Wear suitable protective equipment.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

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Colour : light yellow

Odour : characteristic

Odour Threshold : No data available

pH : 5.0 - 7.0

Melting point/freezing point : 4.5 °C

Initial boiling point and boiling

range

96.5 - 349 °C

Flash point : 72 °C

Method: closed cup

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.89 - 0.90

Density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : 6.42 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

log Pow: 5.3

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : Non-oxidizing

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9.2 Other information

Particle size : No data available

Particle Size Distribution : No data available

**SECTION 10: Stability and reactivity** 

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

Strong acids

Strong bases

### 10.6 Hazardous decomposition products

irritating gases

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg

### **Components:**

### Alcohols, C12-15, ethoxylated:

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Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Method: Expert judgement

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

butan-1-ol:

Acute oral toxicity : LD50 (Rat): 2.292 mg/kg

Acute toxicity estimate: 1,000 mg/kg

Method: Expert judgement

Acute inhalation toxicity : LC0 (Rat): > 17.76 mg/l

Exposure time: 4 h Test atmosphere: vapour Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit): 3,430 mg/kg

2,2' -oxybisethanol:

Acute oral toxicity : LD50 (Rat, male and female): 16,500 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks : Not expected to be irritating to skin.

# **Components:**

### Alcohols, C12-15, ethoxylated:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Based on data from similar materials

butan-1-ol:

Species : Rabbit Result : Skin irritation

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2,2' -oxybisethanol:

Species : reconstructed human epidermis (RhE)

Method : OECD Test Guideline 439

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

Alcohols, C12-15, ethoxylated:

Result : Irreversible effects on the eye

butan-1-ol:

Species : Rabbit

Result : Irreversible effects on the eye

2,2' -oxybisethanol:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

**Product:** 

Assessment : The product is a skin sensitiser, sub-category 1B.

Result : Causes skin sensitization.

Remarks : Causes sensitisation.

**Components:** 

Alcohols, C12-15, ethoxylated:

Test Type : Maximisation Test Exposure routes : Intradermal Species : Guinea pig

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

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butan-1-ol:

Result : Not a skin sensitizer.

2,2' -oxybisethanol:

Test Type : Maximisation Test

Species : Guinea pig

Method : Regulation (EC) No. 440/2008, Annex, B.6

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

Alcohols, C12-15, ethoxylated:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Remarks: Based on data from similar materials

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474

Result: negative

Remarks: Based on data from similar materials

Test Type: Bone marrow chromosome aberration

Species: Rat (male and female) Method: OECD Test Guideline 475

Result: negative

Remarks: Based on data from similar materials

butan-1-ol:

Genotoxicity in vitro : Test Type: gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

2,2' -oxybisethanol:

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Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male)

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

#### Carcinogenicity

Not classified based on available information.

#### **Components:**

#### 2,2' -oxybisethanol:

Species : Rat, male and female

Application Route : Oral
Exposure time : 108 weeks
Result : negative

#### Reproductive toxicity

Not classified based on available information.

#### Components:

#### Alcohols, C12-15, ethoxylated:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Application Route: Dermal

General Toxicity - Parent: NOAEL: 250 mg/kg body weight

Fertility: NOAEC Mating/Fertility: 250 mg/kg body weight

Method: OECD Test Guideline 416

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Dermal

General Toxicity Maternal: NOEL: 100 mg/kg body weight Embryo-foetal toxicity: NOAEL: > 250 mg/kg body weight

Method: OECD Test Guideline 416

Result: negative

Remarks: Based on data from similar materials

2,2' -oxybisethanol:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Mouse, male and female

Application Route: Oral

Result: negative

Effects on foetal develop: Species: Rat

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ment Application Route: Oral

Method: OECD Test Guideline 414

Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

### STOT - single exposure

Not classified based on available information.

### **Components:**

#### butan-1-ol:

Assessment : May cause respiratory irritation., May cause drowsiness or

dizziness.

### STOT - repeated exposure

Not classified based on available information.

# Repeated dose toxicity

#### **Components:**

#### Alcohols, C12-15, ethoxylated:

Species : Rat, male and female

NOAEL : 500 mg/kg Application Route : Oral Exposure time : 90d

Method : OECD Test Guideline 408

Remarks : Based on data from similar materials

### butan-1-ol:

Species : Rat

NOAEL : 1,500 mg/m³ Application Route : Inhalation

### 2,2' -oxybisethanol:

Species : Rat, male and female

NOAEL : 300 mg/kg Application Route : Oral Exposure time : 98 d

Species : Dog, male NOAEL : 2,220 mg/kg

Exposure time : 28 d

Method : OECD Test Guideline 410

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### **Product:**

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Remarks : No data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

#### **Components:**

Alcohols, C12-15, ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 2 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 2

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l

Exposure time: 16.9 h

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.11 - 0.28 mg/l

Exposure time: 30 d

Species: Pimephales promelas (fathead minnow) Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.75 mg/l

End point: Immobilization Exposure time: 21 d

Species: Daphnia magna (Water flea)

Remarks: Based on data from similar materials

NOEC: 0.77 mg/l End point: reproduction Exposure time: 21 d

Species: Daphnia magna (Water flea)

Remarks: Based on data from similar materials

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg

Species: Eisenia fetida (earthworms)

butan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,376 mg/l

Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,328 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): 225

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): 225

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 225 mg/l

Exposure time: 4 d

EC50 (Natural microorganism): 4,390 mg/l

Exposure time: 17 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 4.1 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

2,2' -oxybisethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75,200 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC20 (activated sludge): > 1,995 mg/l

Exposure time: 30 min

Test Type: Respiration inhibition

Method: ISO 8192

Toxicity to fish (Chronic tox-

icity)

NOEC: 15,380 mg/l Exposure time: 7 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 8,590 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (water flea)

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### 12.2 Persistence and degradability

### **Components:**

Alcohols, C12-15, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301B

Remarks: Based on data from similar materials

butan-1-ol:

Biodegradability : Result: Readily biodegradable.

Remarks: Expected to be biodegradable

2,2' -oxybisethanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 25 - 92 % Exposure time: 28 d

### 12.3 Bioaccumulative potential

### **Components:**

Alcohols, C12-15, ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)

Exposure time: 24 d

Bioconcentration factor (BCF): 237

Remarks: Based on data from similar materials

Partition coefficient: n-

octanol/water

log Pow: 4.91 - 6.78 (40 °C)

butan-1-ol:

Partition coefficient: n-

octanol/water

Pow: 1 (25 °C)

2,2' -oxybisethanol:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)

Bioconcentration factor (BCF): 100

Partition coefficient: n-

octanol/water

: log Pow: -1.98 (20 °C)

### 12.4 Mobility in soil

No data available

### 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

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Other adverse effects

**Product:** 

Endocrine disrupting poten-

tial

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.

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

Waste disposal code: 02 01 08 agrochemical waste containing

dangerous substances.

### **SECTION 14: Transport information**

#### 14.1 UN number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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RID : Not regulated as a dangerous goodIMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

Alcohols, C12-15, ethoxylated

(Number on list 3)

butan-1-ol (Number on list 3) 2,2' -oxybisethanol (Number on list

3)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

: Not applicable

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Not applicable

Not applicable

Not applicable

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The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

UK REACH List of substances subject to authorisation :

(Annex XIV)

P5c

Volatile organic compounds : Volatile organic compounds (VOC) content: 21 g/l

Other regulations:

The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

**INERT INGREDIENTS (NULL)** 

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

**SECTION 16: Other information** 

**Full text of H-Statements** 

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Flam. Liq. : Flammable liquids Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

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 (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European 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); ErCx - 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)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - 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; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)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 (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Classification of the mixture:

### Classification procedure:

Eye Dam. 1 H318 Calculation method

Skin Sens. 1B H317 Based on product data or assessment

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Aguatic Chronic 3 H412 Calculation method

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