

SAFETY DATA SHEET

Forrex

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

1.1. Product identifier

Trade name

Forrex

Product no.

57-1050-00

Unique formula identifier (UFI)

11M1-VJGU-KMKV-MUK5

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

Relevant identified uses of the substance or mixture

Appliance protection

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Dafo Vehicle Fire Protection AB

Mediavägen 10 , Box 2039

S-13502 Tyresö

Sweden

+ 46 10 1768100

<http://www.dafo-vehicle.com>

Contact person

CHR

E-mail

support@dafo-vehicle.com

Revision

28-01-2022

SDS Version

4.0

Date of previous version

2022-01-03 (3.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

NCEC CareChem24: +44 1273 289451

Additional Emergency Phone Number in section 16

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

May cause damage to organs through prolonged or repeated exposure. (H373)

Safety statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

Get medical advice/attention if you feel unwell. (P314)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

ethanediol

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT

and/or vPvB.

SECTION 3: Composition/information on ingredients

▼ 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 REACH: 01-2119456816-28 Index No.: 603-027-00-1	15-24,9%	Acute Tox. 4, H302 STOT RE 2, H373 (Oral)	[1]
2-ethylhexanol, ethoxylated, phosphated, sodium salt	CAS No.: 111798-26-6 EC No.: 601-122-2 REACH: Index No.: 601-122-2	1-3%	Skin Irrit. 2, H315 Eye Dam. 1, H318	
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No.: 68515-73-1 EC No.: 500-220-1 REACH: 01-2119488530-36 Index No.:	1-3%	Eye Dam. 1, H318 (SCL: 10.00 %)	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-44 Index No.: 603-096-00-8	<0.1%	Eye Irrit. 2, H319	[1], [3]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The product is not flammable

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated (< 55 °C)

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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ethanediol

Long term exposure limit (8 hours) (ppm): 20(vapour)

Long term exposure limit (8 hours) (mg/m³): 10(particulate)/52(vapour)

Short term exposure limit (15 minutes) (ppm): 40 (vapour)

Short term exposure limit (15 minutes) (mg/m³): 104 (vapour)

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

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2-methylpentane-2,4-diol

Long term exposure limit (8 hours) (ppm): 25

Long term exposure limit (8 hours) (mg/m³): 123

Short term exposure limit (15 minutes) (ppm): 25

Short term exposure limit (15 minutes) (mg/m³): 123

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2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m³): 67,5

Short term exposure limit (15 minutes) (ppm): 15

Short term exposure limit (15 minutes) (mg/m³): 101,2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

Product/substance	ethanediol
DNEL	35 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	ethanediol
DNEL	7 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	ethanediol
DNEL	106 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	ethanediol

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

DNEL	53 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
DNEL	595000 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
DNEL	420 mg / m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
DNEL	357000 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
DNEL	124 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
DNEL	35.7 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-methylpentane-2,4-diol
DNEL	98 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	2-methylpentane-2,4-diol

DNEL	2 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2-methylpentane-2,4-diol
DNEL	14 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2-methylpentane-2,4-diol
DNEL	49 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	2-methylpentane-2,4-diol
DNEL	3.5 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-methylpentane-2,4-diol
DNEL	1 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-methylpentane-2,4-diol
DNEL	1 mg/m ³
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2-methylpentane-2,4-diol
DNEL	49 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-methylpentane-2,4-diol

DNEL	25 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	68 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	101,2 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	83mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	60.7 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	50 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
DNEL	5 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

DNEL	10 ppm
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

PNEC

Product/substance	ethanediol
PNEC	1.53 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	ethanediol
PNEC	10 mg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	ethanediol
PNEC	1 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	ethanediol
PNEC	3.7 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	ethanediol
PNEC	37 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
PNEC	0,1 mg/l
Route of exposure	Freshwater
Duration of Exposure	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
PNEC	0,01mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
PNEC	0.487 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
PNEC	0.048 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	2-methylpentane-2,4-diol
PNEC	0.429 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	2-methylpentane-2,4-diol
PNEC	20 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	2-methylpentane-2,4-diol
PNEC	0.11 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	2-methylpentane-2,4-diol
PNEC	1.79 mg/ kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	2-methylpentane-2,4-diol
PNEC	0.0429 mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	2-methylpentane-2,4-diol
PNEC	0.179 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
PNEC	0.32 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
PNEC	1.1 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
PNEC	0,11 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
PNEC	0,44 mg/ L
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
PNEC	4.4 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

▼ Generally

Use only CE marked protective equipment.

No specific requirements

Respiratory Equipment

No specific requirements

▼ Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Vinyl/PVC	0.6	-	-	

▼ Eye protection

Type	Standards
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Wear safety glasses with side shields.	EN166
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Red

Odour / Odour threshold

Characteristic

pH

7,7-8,3

Density (g/cm³)

~1,15

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

▼ Melting point/Freezing point (°C)

-50 °C

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Not applicable

Solubility in fat (g/L)

Not applicable

9.2. Other information

Other physical and chemical parameters

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	ethanediol
Test method	
Species	Rat
Route of exposure	Oral

Test	LD50
Result	5840.00 mg/kg
Other information	
Product/substance	ethanediol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	9530.00 mg/kg
Other information	
Product/substance	ethanediol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	7712.00 mg/kg
Other information	
Product/substance	ethanediol
Test method	
Species	Mouse
Route of exposure	Dermal
Test	LD50
Result	3500.00 mg/kg
Other information	
Product/substance	2-ethylhexanol, ethoxylated, phosphated, sodium salt
Test method	
Species	Rat
Route of exposure	Oral

Test	LD50
Result	
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	2000.00 mg/kg
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	2000.00 mg/kg
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3700.00 mg/kg
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Species	Rabbit
Route of exposure	Dermal

Test	LD50
Result	8560.00 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	2410.00 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	2764.00 mg/kg
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	29.00 ppm
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Oral

Test	LD50
Result	5660.00 mg/kg
Other information	

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

No special

Other information

No special

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	ethanediol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	72860.00 mg/L
Other information	
Product/substance	ethanediol
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	6500.00 mg/L
Other information	
Product/substance	ethanediol
Test method	
Species	Daphnia
Compartment	
Duration	No data available.
Test	NOEC
Result	8590.00 mg/L
Other information	
Product/substance	2-ethylhexanol, ethoxylated, phosphated, sodium salt
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	

Duration	96 hours
Test	LC50
Result	75 mg/L
Other information	
Product/substance	2-ethylhexanol, ethoxylated, phosphated, sodium salt
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	
Result	267 mg/L
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	20.71 mg/L
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Crustacean
Compartment	
Duration	96 hours
Test	EC50
Result	151 mg/L
Other information	

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	37.00 mg/L
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	100.00 mg/L
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	21.00 mg/L
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Species	Fish
Compartment	

Duration	96 hours
Test	LC50
Result	8510.00 mg/L
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	5410.00 mg/L
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	IC50
Result	429.00 mg/L
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1300.00 mg/L
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	100.00 mg/L
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	100.00 mg/L
Other information	

12.2. Persistence and degradability

Product/substance	ethanediol
Biodegradable	Yes
Test method	
Result	90 %
Product/substance	2-ethylhexanol, ethoxylated, phosphated, sodium salt
Biodegradable	Yes
Test method	OECD 301 A
Result	62%
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Biodegradable	Yes
Test method	OECD 301 E

Result	100 %
Product/substance	2-methylpentane-2,4-diol
Biodegradable	Yes
Test method	OECD 301 F
Result	81 %
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Biodegradable	Yes
Test method	OECD 301 C
Result	80 %

12.3. Bioaccumulative potential

Product/substance	ethanediol
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	
Product/substance	2-ethylhexanol, ethoxylated, phosphated, sodium salt
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Test method	
Potential bioaccumulation	No data available
LogPow	1.77

BCF	No data available
Other information	
Product/substance	2-methylpentane-2,4-diol
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

[EWC code](#)

16 03 06 Organic wastes other than those mentioned in 16 03 05

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1. - 14.4.

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

Not applicable

IMDG

Not applicable

MARINE POLLUTANT

No

IATA

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H373, May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol

of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en