

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VA-DOT 4 LV

Revision date: 17.03.2021

Product code: MIT0040

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

### 1.1. Product identifier

VA-DOT 4 LV

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

#### Use of the substance/mixture

brake fluids

#### Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Company name:	Vierol AG	
Street:	Karlstrasse 19	
Place:	D-26123 Oldenburg	
Telephone:	+49 (0) 441 – 210 20 – 0	Telefax: +49 (0) 441 – 210 20 –111
e-mail:	info@vierol.de	
Internet:	www.vierol.de	
Responsible Department:	Giftinformationszentrum Nord (Göttingen)	
	+49 (0)551/19240	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Reproductive toxicity: Repr. 2

Hazard Statements:

Suspected of damaging the unborn child.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

Signal word: Warning

#### Pictograms:



#### Hazard statements

H361d Suspected of damaging the unborn child.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents / container in accordance with official regulations.

#### Special labelling of certain mixtures

EUH208 Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

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#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate			< 60 %
	250-418-4		01-2119462824-33	
	Repr. 2; H361d			
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol			<= 10 %
	205-592-6	603-183-00-0	01-2119475107-38	
	Eye Dam. 1; H318			
111-77-3	2-(2-methoxyethoxy)ethanol			< 3 %
	203-906-6	603-107-00-6	01-2119475100-52	
	Repr. 2; H361d			
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dione			< 0,1 %
	247-781-6		01-2119979080-37	
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 4; H319 H317 H413			

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

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
30989-05-0	250-418-4	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	< 60 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
143-22-6	205-592-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<= 10 %
	dermal: LD50 = 3540 mg/kg Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 20 - < 30		
111-77-3	203-906-6	2-(2-methoxyethoxy)ethanol	< 3 %
	inhalation: LC50 = > 200 mg/l (vapours); dermal: LD50 = 9404 mg/kg; oral: LD50 = 7128 mg/kg		

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Personal protection equipment: see section 8

Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

##### After inhalation

Remove person to fresh air and keep comfortable for breathing.

When in doubt or if symptoms are observed, get medical advice.

##### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse.

After contact with skin, wash immediately with plenty of water and soap.

If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an

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ophthalmologist immediately.  
Remove contact lenses, if present and easy to do. Continue rinsing.

#### **After ingestion**

Rinse mouth thoroughly with water.  
Get medical advice/attention.

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

The following symptoms may occur: Allergic reactions  
In case of ingestion: Nausea, Vomiting

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
alcohol resistant foam  
Water spray jet  
Dry extinguishing powder  
Water mist  
Carbon dioxide (CO<sub>2</sub>)

#### **Unsuitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

Non-flammable.  
Heating causes rise in pressure with risk of bursting.

### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Evacuate area.  
Use water spray jet to protect personnel and to cool endangered containers.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### **General measures**

Keep people at a distance and stay on the windward side.  
Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **6.3. Methods and material for containment and cleaning up**

#### **For containment**

Stop leak if safe to do so.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Stop leak if safe to do so.

### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8

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Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin, eyes and clothes.
- Use personal protective equipment as required.

#### Advice on protection against fire and explosion

- No special fire protection measures are necessary.

#### Further information on handling

- No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

- Keep locked up.
- Keep container tightly closed in a cool, well-ventilated place.
- Keep/Store only in original container.

#### Hints on joint storage

- Keep away from: Base, Strong acid, Oxidizing agent
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 7.3. Specific end use(s)

brake fluids

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-77-3	2-(2-Methoxyethoxy)ethanol	10	50.1		TWA (8 h)	WEL

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#### DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate			
Worker DNEL, long-term	inhalation	systemic	29,1 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	8,3 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	7,2 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	4,1 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	4,1 mg/kg bw/day	
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol			
Worker DNEL, long-term	inhalation	systemic	195 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	208 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	117 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	12,5 mg/kg bw/day	
111-77-3	2-(2-methoxyethoxy)ethanol			
Worker DNEL, long-term	dermal	systemic	2,22 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	50,1 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	1,33 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	30,1 mg/m <sup>3</sup>	
Consumer DNEL, long-term	oral	systemic	7,5 mg/kg bw/day	
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dione			
Worker DNEL, long-term	dermal	systemic	0,33 mg/kg bw/day	

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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	
Freshwater		0,211 mg/l
Freshwater (intermittent releases)		2,112 mg/l
Marine water		0,021 mg/l
Freshwater sediment		0,76 mg/kg
Marine sediment		0,076 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,028 mg/kg
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	
Freshwater		2 mg/l
Freshwater (intermittent releases)		8,4 mg/l
Marine water		0,2 mg/l
Freshwater sediment		7,7 mg/kg
Marine sediment		0,77 mg/kg
Secondary poisoning		111 mg/kg
Micro-organisms in sewage treatment plants (STP)		200 mg/l
Soil		0,47 mg/kg
111-77-3	2-(2-methoxyethoxy)ethanol	
Freshwater		12 mg/l
Freshwater (intermittent releases)		12 mg/l
Marine water		1,2 mg/l
Freshwater sediment		44,4 mg/kg
Marine sediment		0,44 mg/kg
Secondary poisoning		90 mg/kg
Micro-organisms in sewage treatment plants (STP)		10000 mg/l
Soil		2,1 mg/kg
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dione	
Freshwater		0,02 mg/l
Freshwater (intermittent releases)		0,2 mg/l
Marine water		0,002 mg/l
Freshwater sediment		1,7 mg/kg
Marine sediment		0,17 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,2 mg/kg

#### 8.2. Exposure controls



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#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately.  
Wash hands and face before breaks and after work and take a shower if necessary.  
When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection. (EN166)

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. (EN ISO 374)  
Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material: > 0,3 mm  
Breakthrough time: > 8h

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.  
Half-face mask (EN 140)  
Filter type: A (EN 141)  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

#### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	amber
Odour:	characteristic
Odour threshold:	not determined

pH-Value: 7 - 10,5

#### Changes in the physical state

Melting point:	< -50 °C
Boiling point or initial boiling point and boiling range:	> 260 °C
Pour point:	not determined
Flash point:	not determined

#### Flammability

Solid/liquid:	not applicable
Gas:	not applicable

#### Explosive properties

The product is not: Explosive. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

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Lower explosion limits: not determined

Upper explosion limits: not determined

**Self-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

The product is not: oxidising.

Vapour pressure: not determined

Vapour pressure: not determined

Density (at 20 °C): 1,02 - 1,09 g/cm<sup>3</sup>

Water solubility: Water: miscible

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic:  
(at 20 °C) 15 mm<sup>2</sup>/s

Relative vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Safe handling: see section 7

**10.5. Incompatible materials**

Incompatible materials: Oxidising agent, strong Acids, Strong alkali

**10.6. Hazardous decomposition products**Hazardous decomposition products: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 402
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol				
	dermal	LD50 3540 mg/kg	Rabbit	Am Ind Hyg Ass J, 23, 95 (1960)	Study pre-dates guidelines. Similar to o
111-77-3	2-(2-methoxyethoxy)ethanol				
	oral	LD50 7128 mg/kg	Mouse	Study report (1981)	OECD Guideline 401
	dermal	LD50 9404 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
	inhalation (1 h) vapour	LC50 > 200 mg/l	Rat		

#### Irritation and corrosivity

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

#### Sensitising effects

Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; 2-(2-methoxyethoxy)ethanol)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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

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

#### Aspiration hazard

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

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

## SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate					
	Acute fish toxicity	LC50 100,3 mg/l	96 h	Oncorhynchus mykiss	Study report (1987)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 224,4 mg/l	72 h	Raphidocelis subcapitata	Study report (1999)	EU Method C.3
	Acute bacteria toxicity	(> 1000 mg/l)	0,5 h	The inoculum of the activated sludge originated fr	Study report (1999)	OECD Guideline 209
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol					
	Acute fish toxicity	LC50 2200 - 4600 mg/l	96 h	Leuciscus idus	Study report (1989)	other: German industrial standard test g
	Acute algae toxicity	ErC50 780 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1999)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	Study report (1988)	EU Method C.2
	Crustacea toxicity	NOEC > 100 mg/l	21 d	Daphnia magna	Study report (1999)	OECD Guideline 211
111-77-3	2-(2-methoxyethoxy)ethanol					
	Acute fish toxicity	LC50 5741 mg/l	96 h	Pimephales promelas	Study report (1979)	other: see below
	Acute algae toxicity	ErC50 > 1000 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (1983)	OECD Guideline 201
	Acute crustacea toxicity	EC50 1192 mg/l	48 h	Daphnia magna	Study report (1979)	Followed methods as described in the US
	Acute bacteria toxicity	(> 1000 mg/l)	0,5 h	activated sludge, domestic	Study report (2001)	OECD Guideline 209
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dione					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss	Study report (2014)	OECD Guideline 203
	Acute algae toxicity	ErC50 110 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (1997)	Internal T.R. Wilbury Test Lab Protocol
	Acute bacteria toxicity	(800 mg/l)	3 h	activated sludge, domestic	Study report (1995)	OECD Guideline 209

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	-4,37
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	0,51
111-77-3	2-(2-methoxyethoxy)ethanol	-0,47
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dione	>= 4,39

#### 12.4. Mobility in soil

No information available.

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#### **12.5. Results of PBT and vPvB assessment**

No information available.

#### **12.6. Endocrine disrupting properties**

No information available.

#### **12.7. Other adverse effects**

No information available.

#### **Further information**

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

#### **Inland waterways transport (ADN)**

##### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

##### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO-TI/IATA-DGR)**

##### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

##### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

##### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

##### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

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## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 54

2010/75/EU (VOC): 62,98 % (642,396 g/l)

2004/42/EC (VOC): 2,99 % (30,498 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

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ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Repr. 2; H361d	Calculation method

#### Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*