

## Safety Data Sheet

### BSB RUBY RED

Safety Data Sheet dated 12/01/2023 version 4



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

### 1.1. Product identifier

Mixture identification:

Trade name: BSB RUBY RED

Trade code: LN610043

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

Recommended use: Coatings and paints, thinners, paint removers

Mono compound enamel - finish coat

Liquid pigmented dispersion

Professional uses

Uses advised against: N.A.

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

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111

First Email: safety@lechler.eu

### 1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

UNITED STATES OF AMERICA: Emergency Contact: Lechler SPA -Tel. +39-031-586301 (8.00-18.00).

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2                      Highly flammable liquid and vapour.

Skin Irrit. 2                      Causes skin irritation.

Eye Irrit. 2                      Causes serious eye irritation.

STOT SE 3                      May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Hazard pictograms and Signal Word



Danger

#### Hazard statements

H225                      Highly flammable liquid and vapour.

H315                      Causes skin irritation.

H319                      Causes serious eye irritation.

H336                      May cause drowsiness or dizziness.

#### Precautionary statements

P210                      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

#### Contains

n-butyl acetate  
2-ethoxy-1-methylethyl acetate  
propan-2-ol  
butan-1-ol

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

#### 2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation.  
Endocrine disrupting properties-Toxicity 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. Endocrine disrupting properties-Ecotoxicity 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.

Other Hazards: No other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: BSB RUBY RED

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥30 - ≤40 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
≥7 - ≤10 %	2-ethoxy-1-methylethyl acetate	CAS:54839-24-6 EC:259-370-9 Index:603-177-00-8	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475116-39
≥7 - ≤10 %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; STOT SE 3, H335	01-2119488216-32
≥3 - ≤5 %	barium sulfate	CAS:7727-43-7 EC:231-784-4		01-2119491274-35
≥1 - ≤2.5 %	propan-2-ol	CAS:67-63-0 EC:200-661-7 Index:603-117-00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25
≥1 - ≤2.5 %	butan-1-ol	CAS:71-36-3 EC:200-751-6 Index:603-004-00-6	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Flam. Liq. 3, H226; STOT SE 3, H335; STOT SE 3, H336	01-2119484630-38
≥1 - ≤2.5 %	Cyclohexanamine, N,N-dimethyl-, compd. with .alpha.-isotridecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate	CAS:164383-18-0	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Aquatic Chronic 2, H411	

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

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

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
n-butyl acetate CAS: 123-86-4	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 724 mg/m <sup>3</sup> - 150 ppm; Short Term: 966 mg/m <sup>3</sup> - 200 ppm
	EU		Long Term: 241 mg/m <sup>3</sup> - 50 ppm; Short Term: 723 mg/m <sup>3</sup> - 150 ppm Behaviour Indicative 2019/1831/EU
	ACGIH		Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr
xylene CAS: 1330-20-7	ACGIH		Long Term: 20 ppm A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 441 mg/m <sup>3</sup> - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	EU		Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm Behaviour Indicative 2000/39/EC
barium sulfate CAS: 7727-43-7	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m <sup>3</sup> Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND	Long Term: 4 mg/m <sup>3</sup> Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

NORTHERN  
IRELAND

ACGIH Long Term: 5 mg/m<sup>3</sup>  
I, E - Pneumoconiosis

propan-2-ol  
CAS: 67-63-0

EH40 UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND Long Term: 999 mg/m<sup>3</sup> - 400 ppm; Short Term: 1250 mg/m<sup>3</sup> - 500 ppm

ACGIH Long Term: 200 ppm; Short Term: 400 ppm  
A4, BEI - Eye and URT irr, CNS impair

butan-1-ol  
CAS: 71-36-3

EH40 UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND Short Term: 154 mg/m<sup>3</sup> - 50 ppm  
Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to

ACGIH Long Term: 20 ppm  
Eye and URT irr

4-hydroxy-4-methylpentan-2-one  
CAS: 123-42-2

EH40 UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND Long Term: 241 mg/m<sup>3</sup> - 50 ppm; Short Term: 362 mg/m<sup>3</sup> - 75 ppm

ACGIH Long Term: 50 ppm  
URT and eye irr

**Biological limit values**

xylene  
CAS: 1330-20-7

Biological Indicator: xylene; Sampling Period: End of turn  
Value: 1.5 mg/L; Medium: Blood  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: Methylhippuric acid; Sampling Period: End of turn  
Value: 1.5 g/l; Medium: Urine  
Remark: New Zealand. Biological Exposure Indices

Biological Indicator: xylene; Sampling Period: End of turn  
Value: 1.5 mg/L; Medium: Blood  
Remark: Slovakia. Biological Limit Values

Biological Indicator: sum of 2,3,4-methylhippuric acid; Sampling Period: End of turn  
Value: 2000 mg/L; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: methylhypuric acid; Sampling Period: End of turn  
Value: 3 g/l; Medium: Urine  
Remark: Romania. Biological limit values

Biological Indicator: methylhippuric acid (all isomers); Sampling Period: End of turn  
Value: 2 g/l; Medium: Urine  
Remark: Slovenia. BAT-values

Biological Indicator: xylene; Sampling Period: Immediately after exposure or after working hours  
Value: 1.5 mg/L; Medium: Blood  
Remark: TRGS 903 - Biological limit values

Biological Indicator: methylhippuric acid (all isomers); Sampling Period: Immediately after exposure or after working hours  
Value: 2 g/l; Medium: Urine  
Remark: TRGS 903 - Biological limit values

Biological Indicator: Methylhippuric acid; Sampling Period: Last 4 hours of shift  
Value: 2 mg/L; Medium: Urine  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: total (o-, m-, p-)methylhippuric acid; Sampling Period: End of turn; End of working week  
Value: 800 mg/L; Medium: Urine  
Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: methyl hippuric acid; Sampling Period: At the end of a work week / at the end of a work day / at the end of a shift  
Value: 1.5 g/l; Medium: Urine  
Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: xylene; Sampling Period: End of workday  
Value: 1 mg/L; Medium: Blood  
Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: Methylhippuric acid; Sampling Period: At the end of exposure, in 4 hours  
Value: 2 mg/L; Medium: Urine  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: methyl hippuric acid; Sampling Period: After shift  
Value: 5 Millimoles per liter; Medium: Urine  
Remark: Finland. Biological limit values

Biological Indicator: methyl hippuric acid; Sampling Period: Immediately after exposure or after working hours  
Value: 2 g/l; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

propan-2-ol  
CAS: 67-63-0

Biological Indicator: Acetone  
Value: 2 mg/g Creatinine; Medium: Urine  
Remark: Argentina. Biological Exposure Indices

Biological Indicator: Acetone; Sampling Period: End of turn; End of working week  
Value: 40 mg/L; Medium: Urine  
Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 50 mg/L; Medium: Blood  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 86 micromol per litre; Medium: Blood  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 50 mg/L; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 86 micromol per litre; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 25 mg/L; Medium: Blood  
Remark: TRGS 903 - Biological limit values

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 25 mg/L; Medium: Urine  
Remark: TRGS 903 - Biological limit values

Biological Indicator: Acetone; Sampling Period: End of turn; End of working week  
Value: 40 mg/L; Medium: Urine  
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Acetone; Sampling Period: End of turn; End of working week  
Value: 40 mg/L; Medium: Urine  
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 50 mg/L; Medium: Urine  
Remark: Romania. Biological limit values

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 25 mg/L; Medium: Blood  
Remark: Slovenia. BAT-values

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 25 mg/L; Medium: Urine  
Remark: Slovenia. BAT-values

Biological Indicator: Acetone; Sampling Period: FSL  
Value: 40 mg/L; Medium: Urine

Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 25 mg/L; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 4 Millimoles per liter; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 25 mg/L; Medium: Blood  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours  
Value: 4 Millimoles per liter; Medium: Blood  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Acetone; Sampling Period: End of turn; End of working week  
Value: 40 mg/L; Medium: Urine  
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Acetone; Sampling Period: End of workday at end of workweek  
Value: 40 mg/L; Medium: Urine  
Remark: VE.Biological Exposure Limits

Biological Indicator: 1-butanol; Sampling Period: Before next shift  
Value: 2 mg/g Creatinine; Medium: Urine  
Remark: TRGS 903 - Biological limit values

Biological Indicator: 1-butanol; Sampling Period: Immediately after exposure or after working hours  
Value: 10 mg/g Creatinine; Medium: Urine  
Remark: TRGS 903 - Biological limit values

Biological Indicator: n-butyl alcohol; Sampling Period: Beginning of next shift  
Value: 2 mg/g Creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: n-butyl alcohol; Sampling Period: Beginning of next shift  
Value: 313 micromoles per millimole creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: n-butyl alcohol; Sampling Period: End of turn  
Value: 10 mg/g Creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: n-butyl alcohol; Sampling Period: End of turn  
Value: 1534 micromoles per millimole creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: 1-butanol  
Value: 2 mg/g Creatinine; Medium: Urine  
Remark: Slovenia. BAT-values

Biological Indicator: 1-butanol; Sampling Period: End of turn  
Value: 10 mg/g Creatinine; Medium: Urine  
Remark: Slovenia. BAT-values

Biological Indicator: n-butanol; Sampling Period: Immediately after exposure or after working hours  
Value: 10 mg/g Creatinine; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: n-butanol; Sampling Period: Before next shift or 16 hours after last shift  
Value: 2 mg/g Creatinine; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

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

n-butyl acetate  
CAS: 123-86-4

Exposure Route: Fresh Water; PNEC Limit: 0.18 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.36 mg/l

Exposure Route: Marine water; PNEC Limit: 0.01 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.98 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.09 mg/kg

Exposure Route: Soil; PNEC Limit: 0.09 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 35.6 mg/l

2-ethoxy-1-methylethyl  
acetate  
CAS: 54839-24-6

Exposure Route: Fresh Water; PNEC Limit: 2 mg/l

Exposure Route: Marine water; PNEC Limit: 0.2 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 8.2 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.67 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62.5 mg/l

Exposure Route: Oral; PNEC Limit: 117 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l

xylene  
CAS: 1330-20-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.32 mg/l

Exposure Route: Marine water; PNEC Limit: 0.32 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Soil; PNEC Limit: 2.31 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.115 mg/l

barium sulfate  
CAS: 7727-43-7

Exposure Route: Freshwater sediments; PNEC Limit: 600.4 mg/kg

Exposure Route: Soil; PNEC Limit: 207.7 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62.6 mg/l

Exposure Route: Fresh Water; PNEC Limit: 140.9 mg/l

propan-2-ol  
CAS: 67-63-0

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 140.9 mg/l

Exposure Route: Marine water; PNEC Limit: 140.9 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 552 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 552 mg/kg

Exposure Route: Soil; PNEC Limit: 28 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2251 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.08 mg/l

butan-1-ol  
CAS: 71-36-3

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.25 mg/l

Exposure Route: Marine water; PNEC Limit: 0.008 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.0324 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.032 mg/kg

Exposure Route: Soil; PNEC Limit: 0.01 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2476 mg/l

Exposure Route: Fresh Water; PNEC Limit: 2 mg/l

4-hydroxy-4-  
methylpentan-2-one  
CAS: 123-42-2

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0.2 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 9.06 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.91 mg/kg

Exposure Route: Soil; PNEC Limit: 0.63 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 82 mg/l

#### Derived No Effect Level (DNEL) values

n-butyl acetate  
CAS: 123-86-4

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 300 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 600 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Industry: 300 mg/m<sup>3</sup>



Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Industry: 600 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 35.7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Consumer: 300 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Consumer: 35.7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Consumer: 300 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 2 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 2 mg/kg dry weight (d.w.)

2-ethoxy-1-methylethyl  
acetate  
CAS: 54839-24-6

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 2366 mg/m3; Worker Professional: 2366 mg/kg; Consumer: 1420 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 152 mg/m3; Worker Professional: 152 mg/m3; Consumer: 181 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 103 mg/kg; Worker Professional: 103 mg/kg; Consumer: 62 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 13.1 mg/kg

xylene  
CAS: 1330-20-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 65.3 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 12.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 442 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 212 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 221 mg/m3

barium sulfate  
CAS: 7727-43-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 10 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 10 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 10 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 13000 mg/kg

propan-2-ol  
CAS: 67-63-0

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 89 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 500 mg/m3

butan-1-ol  
CAS: 71-36-3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Consumer: 55 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 3125 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 310 mg/m3

4-hydroxy-4-methylpentan-2-one  
CAS: 123-42-2

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Consumer: 3.4 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 11.8 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 3.4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 9.4 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 66.4 mg/m3

## 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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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: N.A.

pH: Not Relevant

Kinematic viscosity: > 20,5 mm<sup>2</sup>/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 21 °C (70 °F)

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.01 g/cm<sup>3</sup>

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 2 H225

Kinematic viscosity m<sup>2</sup>/s (40°C) > 20,5 mm<sup>2</sup>/sec (40 °C)

Viscosity: = 65.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

**Particle characteristics:**

Particle size: N.A.

## 9.2. Other information

Evaporation rate: N.A.

Miscibility: N.A.

Conductivity: N.A.

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Data not available.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

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

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met ATEmix - Oral : 44035.7 mg/kg bw ATEmix - Dermal : 13364.4 mg/kg bw ATEmix - Inhalation (Vapours) : 133.644 mg/l
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

n-butyl acetate	a) acute toxicity	LD50 Oral Rat = 10760 mg/kg	OECD Test Guideline 423
		LC50 Inhalation > 20 mg/l 4h	
		LD50 Skin Rabbit > 14112 mg/kg	OECD Test Guideline 402
2-ethoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000	OECD Test Guideline 401
		LC50 Inhalation Mist Rat > 6.99 4h	OECD Test Guideline 403
xylene	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg	
		LC50 Inhalation Rat = 6700 Ppm 4h	
		LD50 Skin Rabbit > 5000 mg/kg	

propan-2-ol	a) acute toxicity	LD50 Oral Rat = 5840 mg/kg LC50 Inhalation Rat > 10000 Ppm 6h
butan-1-ol	a) acute toxicity	LD50 Oral Rat = 790 mg/kg LC50 Inhalation Rat > 18 mg/l 4h LD50 Skin Rabbit = 3400 mg/kg
4-hydroxy-4-methylpentan-2-one	a) acute toxicity	LD50 Oral Rat = 3002 mg/kg  LC0 Inhalation Rat >= 7.6 mg/l 4h LD50 Skin Rat > 1875 mg/kg

## 11.2. Information on other hazards

### Endocrine disrupting properties:

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.

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203  a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202  e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201  c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H
2-ethoxy-1-methylethyl acetate	CAS: 54839-24-6 - EINECS: 259-370-9 - INDEX: 603- 177-00-8	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 140 mg/L 96 H OECD Test Guideline 203  a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 110 mg/L 48 H OECD Test Guideline 202  e) Plant toxicity : EC50 Algae Desmodesmus subspicatus (green algae) > 100 mg/L 72 H OECD Test Guideline 201  c) Bacteria toxicity : EC10 Microorganisms Pseudomonas putida = 560 mg/L 16 H  b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D  a) Aquatic acute toxicity : NOEC Fish Oryzias latipes (Orange-red killifish) = 47.5 mg/L 96 H  e) Plant toxicity : NOEC Algae Desmodesmus subspicatus (green algae) >= 100 mg/L 72 H

xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	<p>a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H</p> <p>a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H</p> <p>e) Plant toxicity : EC0 Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H</p> <p>b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout) &gt; 1.3 mg/L 56 D</p> <p>e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = 4.36 mg/L 72 H</p>
propan-2-ol	CAS: 67-63-0 - EINECS: 200-661-7 - INDEX: 603-117-00-0	<p>a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 9640 mg/L 96 H</p> <p>a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) &gt; 10000 mg/L 24 H</p> <p>e) Plant toxicity : EC50 Algae Scenedesmus quadricauda (Green algae) = 1800 mg/L 7 D</p>
4-hydroxy-4-methylpentan-2-one	CAS: 123-42-2 - EINECS: 204-626-7 - INDEX: 603-016-00-1	<p>a) Aquatic acute toxicity : LC50 Fish Oryzias latipes (Orange-red killifish) &gt; 100 mg/L 96 H</p> <p>a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) &gt; 1000 mg/L 48 H</p> <p>e) Plant toxicity : EC50 Algae Pseudokirchneriella subcapitata (green algae) &lt; 1000 mg/L 72 H</p>

## 12.2. Persistence and degradability

N.A.

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

## 12.6. Endocrine disrupting properties

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.

## 12.7. Other adverse effects

N.A.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

# SECTION 14: Transport information

## 14.1. UN number or ID number

1263

## 14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

## 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

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

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

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

Toxic ingredients quantity: 0.00

Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

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

Road and Rail (ADR-RID):

ADR exempt:

ADR-Label: 3

ADR - Hazard identification number: 33

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category B

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

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

N.A.

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

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

#### **Provisions related to directive EU 2012/18 (Seveso III):**

**Seveso III category according to Annex 1, part 1****Lower-tier threshold (tonnes)****Upper-tier threshold (tonnes)**

Product belongs to category: P5c 5000

50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

**German Water Hazard Class.**

3: Severe hazard to waters

**SVHC Substances:**

No data available

**DIRECTIVE 2010/75/EU (VOC directive)**

Volatile Organic compounds - VOCs = 58.87 %

Volatile Organic compounds - VOCs = 594.54 g/L

Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 41.13 %

**Storage Class (TRGS 510)**

Storage Class (TRGS 510) Flammable liquid substances

**Classification according to VbF**

Classification according to VbF A I - Flash point less than 21 °C, at 15 °C not miscible in water

**Mal-Code (Denmark)**

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number	Regulatory Base
3 - 3	1.240	m3 air/10 g	1993	Administrative determined MAL-Factors

**Biocides**

REGULATION (EC) No 528/2012

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

**SECTION 16: Other information**

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2

3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
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2.6/2	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.8/3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.



LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 2: Hazards identification
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 16: Other information