

Safety Data Sheet

ACRIFLEX INCOLORE EXTRA MATT

Safety Data Sheet dated 07/05/2024 version 4



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

1.1. Product identifier

Mixture identification:

Trade name: ACRIFLEX INCOLORE EXTRA MATT

Trade code: L0960216

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

Recommended use: Coatings and paints, thinners, paint removers

Vernice trasparente incolore bicomponente

Soluzione liquida

Impieghi industriali

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

Telefono: +39031586111

First Email: safety@lechler.eu

1.4. Emergency telephone number

CAV "Osp.Ped.Bambino Gesù" Dip.Emergenza di Roma ...0668593726
Azienda Ospedaliera Università di Foggia800183459 -
Ospedale Niguarda Ca' Granda di Milano0266101029 -
Azienda Ospedaliera "A. Cardarelli" di Napoli0817472870 -
CAV Policlinico "Umberto I" di Roma0649978000 -
CAV Policlinico "A. Gemelli" di Roma063054343 -
Azienda Osp."Careggi" U.O. Tossicologica di Firenze0557947819 -
CAV Centro Nazionale di Informaz.Tossicol. di Pavia038224444 -
Azienda Ospedaliera Papa Giovanni XXIII di Bergamo.....800883300 -
Azienda Ospedaliera Integrata di Verona.....800011858 -

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Flam. Liq. 3	Flammable liquid and vapour.
Acute Tox. 4	Harmful if swallowed.
Skin Irrit. 2	Causes skin irritation.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1A	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Contattare immediatamente un CENTRO ANTIVELENI/un medico.
P370+P378	In caso d'incendio: utilizzare sabbia secca, prodotto chimico secco o schiuma resistente all'alcool per estinguere.
P403+P235	Store in a well-ventilated place. Keep cool.

Contains

cicloesanone

miscela di reazione di etilbenzene, m-xilene e p-xilene

Prodotto di reazione tra Bis(1,2,2,6,6-pentametil-4-piperidil) sebacato e Metil 1,2,2,6,6-pentametil-4-piperidil sebacato

miscela di α -3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil- ω -idrossipoli(ossietilene) e α -3-(3-(2H-benzotriazol- 2-il)-5-terz-butil-4-idrossifenil) propionil- ω -3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionilossipoli(ossietilene)

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

None.

2.3. Other hazards

Risultati della valutazione PBT e vPvB

Secondo i criteri dell'ordinamento REACH nessuna sostanza come PBT, vPvB. Proprietà di interferenza con il sistema endocrino-Tossicità

La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

Proprietà di interferenza con il sistema endocrino-ecotossicità

La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: ACRIFLEX INCOLORE EXTRA MATT

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - ≤30 %	cicloesanone	CAS:108-94-1 EC:203-631-1 Index:606-010-00-7	Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119453616-35
≥20 - ≤25 %	miscela di reazione di etilbenzene, m-xilene e p-xilene	EC:905-562-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304	01-2119555267-33
≥10 - ≤12.5 %	silicio diossido	CAS:7631-86-9 EC:231-545-4	Substance with a Union workplace exposure limit.	01-2119379499-16
≥3 - ≤5 %	acetato di n-butile	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
≥1 - ≤2.5 %	acetato di 1-metil-2-metossietile	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	STOT SE 3, H336; Flam. Liq. 3, H226	01-2119475791-29
≥0.5 - ≤1 %	Prodotto di reazione tra Bis(1,2,2,6,6-pentametil-4-piperidil) sebacato e Metil 1,2,2,6,6-pentametil-4-piperidil sebacato	CAS:1065336-91-5 EC:915-687-0	Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361f, M-Acute:1	01-2119491304-40-0000
≥0.5 - ≤1 %	miscela di α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil-ω-idrossipoli(ossietilene) e α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil) propionil-ω-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionilossipoli (ossietilene)	CAS:104810-47-1, 104810-48-2 EC:400-830-7 Index:607-176-00-3	Skin Sens. 1A, H317; Aquatic Chronic 2, H411	01-0000015075-76
< 0.1 %	xilene	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

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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

Give nothing to eat or drink.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In caso d'incendio: utilizzare sabbia secca, prodotto chimico secco o schiuma resistente all'alcool per estinguere.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

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

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Use localized ventilation system.

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.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Conservare ad una temperatura compresa tra 5° e 35°C. Tenere lontano da fiamme libere e sorgenti di calore. Evitare l'esposizione diretta al sole.

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	
cicloesanone CAS: 108-94-1	EU		Long Term: 40.8 mg/m ³ - 10 ppm; Breve Termine 81.6 mg/m ³ - 20 ppm Behaviour Indicative 2000/39/CE	
	EU		Identifica la possibilità di significativo assorbimento attraverso la pelle	
	SUVA	SWITZERLAN D	Long Term: 100 mg/m ³ - 25 ppm; Breve Termine 200 mg/m ³ - 50 ppm Se il valore limite di esposizione professionale viene rispettato, le lesioni al feto sono improbabili.	
	VLEP	ITALY	Long Term: 40.8 mg/m ³ - 10 ppm; Breve Termine 81.6 mg/m ³ - 20 ppm La notazione 'Pelle' attribuita ai valori limite di esposizione indica possibilità di assorbimento significativo attraverso la pelle	
silicio diossido CAS: 7631-86-9	ACGIH		Long Term: 20 ppm; Breve Termine 50 ppm Skin, A3, BEI - Eye and URT irr	
	EU		Long Term: 0.1 mg/m ³ 2004/37/CE	
	EU		Agenti cancerogeni o mutageni	
	EU		Polvere respirabile	
SUVA	SWITZERLAN D	Long Term: 0.15 mg/m ³ Occupational Safety and Health Administration		
	acetato di n-butile CAS: 123-86-4	SUVA	SWITZERLAN D	Long Term: 480 mg/m ³ - 100 ppm; Breve Termine 960 mg/m ³ - 200 ppm Se il valore limite di esposizione professionale viene rispettato, le lesioni al feto sono improbabili.
		EU		Long Term: 241 mg/m ³ - 50 ppm; Breve Termine 723 mg/m ³ - 150 ppm Behaviour Indicative 2019/1831/UE
ACGIH		Long Term: 50 ppm; Breve Termine 150 ppm Eye and URT irr		
acetato di 1-metil-2-metossietile CAS: 108-65-6	EU		Long Term: 275 mg/m ³ - 50 ppm; Breve Termine 550 mg/m ³ - 100 ppm Behaviour Indicative 2000/39/CE	
	EU		Identifica la possibilità di significativo assorbimento attraverso la pelle	
	SUVA	SWITZERLAN D	Long Term: 275 mg/m ³ - 50 ppm; Breve Termine 275 mg/m ³ - 50 ppm Se il valore limite di esposizione professionale viene rispettato, le lesioni al feto sono improbabili.	
VLEP	ITALY	Long Term: 275 mg/m ³ - 50 ppm; Breve Termine 550 mg/m ³ - 100 ppm La notazione 'Pelle' attribuita ai valori limite di esposizione indica possibilità di assorbimento significativo attraverso la pelle		
	xilene CAS: 1330-20-7	ACGIH	Long Term: 20 ppm A4, BEI - URT and eye irr; hematologic eff; CNS impair	
		EU		Long Term: 221 mg/m ³ - 50 ppm; Breve Termine 442 mg/m ³ - 100 ppm Behaviour Indicative 2000/39/CE
EU		Identifica la possibilità di significativo assorbimento attraverso la pelle		
SUVA	SWITZERLAN D	Long Term: 435 mg/m ³ - 100 ppm Possibilità d'intossicazione per riassorbimento transcutaneo. Certe sostanze penetrano nell'organismo non soltanto tramite le vie re		
SUVA	SWITZERLAN D	Breve Termine 870 mg/m ³ - 200 ppm Institut National de Recherche et de Sécurité pour la prévention des accidents du travail et des maladies professionnelles		
VLEP	ITALY	Long Term: 221 mg/m ³ - 50 ppm; Breve Termine 442 mg/m ³ - 100 ppm La notazione 'Pelle' attribuita ai valori limite di esposizione indica possibilità di		

Biological limit values

cicloesanone
CAS: 108-94-1

Biological Indicator: 1,2-cyclohexanediol; Sampling Period: Fine turno; Fine settimana lavorativa
Value: 50 mg/g Creatinine; Medium: Urine
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: 1,2-cyclohexanediol; Sampling Period: Fine turno; Fine settimana lavorativa
Value: 49 mmol/mmol creatinine; Medium: Urine
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: Fine turno; Fine settimana lavorativa
Value: 80 mg/L; Medium: Urine
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Cyclohexanol in urine ; Sampling Period: Fine turno
Value: 8 mg/L; Medium: Urine
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: Fine turno; Fine settimana lavorativa
Value: 80 mg/L; Medium: Urine
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Cyclohexanol in urine ; Sampling Period: Fine turno
Value: 8 mg/L; Medium: Urine
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: 1,2-cyclohexanediol; Sampling Period: FSL
Value: 80 mg/L; Medium: Urine
Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Cyclohexanol in urine ; Sampling Period: End of workday
Value: 8 mg/L; Medium: Urine
Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: total 1,2-cyclohexanediol; Sampling Period: In case of long-term exposure: after more than one shift
Value: 100 mg/L; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: total 1,2-cyclohexanediol; Sampling Period: Immediately after exposure or after working hours
Value: 86 Millimoles per liter; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: total cyclohexanol; Sampling Period: In case of long-term exposure: after more than one shift
Value: 12 mg/L; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: total cyclohexanol; Sampling Period: Immediately after exposure or after working hours
Value: 12 Millimoles per liter; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Cyclohexanol in urine ; Sampling Period: After shift
Value: 2 Millimoles per mole Creatinine; Medium: Urine
Remark: UK. Biological monitoring guidance values

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: Fine turno; Fine settimana lavorativa
Value: 80 mg/L; Medium: Urine
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Cyclohexanol in urine ; Sampling Period: Fine turno
Value: 8 mg/L; Medium: Urine
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: 1,2-cyclohexanediene; Sampling Period: End of workday at end of workweek
Value: 80 mg/L; Medium: Urine
Remark: VE.Biological Exposure Limits

Biological Indicator: Cyclohexanol in urine ; Sampling Period: End of workday
Value: 8 mg/L; Medium: Urine
Remark: VE.Biological Exposure Limits

Sampling Period: In case of long-term exposure: after more than one shift

Sampling Period: Immediately after exposure or after working hours

xilene
CAS: 1330-20-7

Sampling Period: In case of long-term exposure: after more than one shift

Sampling Period: Immediately after exposure or after working hours

Biological Indicator: xylene; Sampling Period: Fine turno

Value: 1.5 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Methylhippuric acid; Sampling Period: Fine turno

Value: 1.5 g/l; Medium: Urine

Remark: New Zealand. Biological Exposure Indices

Biological Indicator: xylene; Sampling Period: Fine turno

Value: 1.5 mg/L; Medium: Blood

Remark: Slovakia. Biological Limit Values

Biological Indicator: sum of 2,3,4-methylhippuric acid; Sampling Period: Fine turno

Value: 2000 mg/L; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: methylhippuric acid; Sampling Period: Fine turno

Value: 3 g/l; Medium: Urine

Remark: Romania. Biological limit values

Biological Indicator: methylhippuric acid (all isomers); Sampling Period: Fine turno

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: Fine turno; Fine settimana lavorativa

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

Predicted No Effect Concentration (PNEC) values

cicloesanone
CAS: 108-94-1

Exposure Route: Freshwater sediments; PNEC Limit: 0.033 mg/l

Exposure Route: Marine water; PNEC Limit: 0.003 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.329 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Soil; PNEC Limit: 0.014 mg/kg

miscela di reazione di etilbenzene, m-xilene e p-xilene
 Exposure Route: Marine water; PNEC Limit: 0.25 mg/l
 Exposure Route: Freshwater sediments; PNEC Limit: 14.33 mg/kg
 Exposure Route: Soil; PNEC Limit: 2.41 mg/kg

acetato di n-butile
 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

acetato di 1-metil-2-metossietile
 CAS: 108-65-6
 Exposure Route: Fresh Water; PNEC Limit: 0.635 mg/kg
 Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6.35 mg/l
 Exposure Route: Marine water; PNEC Limit: 0.064 mg/kg
 Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg
 Exposure Route: Marine water sediments; PNEC Limit: 0.329 mg/kg
 Exposure Route: Soil; PNEC Limit: 0.29 mg/kg
 Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Prodotto di reazione tra Bis(1,2,2,6,6-pentametil-4-piperidil) sebacato e Metil 1,2,2,6,6-pentametil-4-piperidil sebacato
 CAS: 1065336-91-5
 Exposure Route: Fresh Water; PNEC Limit: 0.002 mg/l
 Exposure Route: Marine water; PNEC Limit: 0 mg/l
 Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.009 mg/l
 Exposure Route: Freshwater sediments; PNEC Limit: 1.05 mg/kg
 Exposure Route: Marine water sediments; PNEC Limit: 0.11 mg/kg
 Exposure Route: Soil; PNEC Limit: 0.21 mg/kg
 Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

miscela di α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil-ω-idrossipoli(ossietilene) e α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil) propionil-ω-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil) propionilossipoli(ossietilene)
 CAS: 104810-47-1, 104810-48-2
 Exposure Route: Fresh Water; PNEC Limit: 0.0023 mg/l
 Exposure Route: Marine water; PNEC Limit: 0.00023 mg/l
 Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.028 mg/l
 Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l
 Exposure Route: Freshwater sediments; PNEC Limit: 3.06 mg/kg
 Exposure Route: Marine water sediments; PNEC Limit: 0.306 mg/kg
 Exposure Route: Soil; PNEC Limit: 2 mg/kg

xilene
 CAS: 1330-20-7
 Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l
 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

Derived No Effect Level (DNEL) values

cicloesanone
CAS: 108-94-1

Exposure Route: Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 1.5 mg/kg

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 1.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)
Consumer: 40 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Consumer: 20 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 20 mg/m³

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

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 1 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 1 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)
Worker Professional: 80 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 80 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 40 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 40 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Professional: 4 mg/kg

miscela di reazione di
etilbenzene, m-xilene e p-
xilene

Exposure Route: Human Inhalation
Worker Professional: 221 mg/m³

Exposure Route: Human Inhalation
Worker Professional: 442 mg/m³

Exposure Route: Human Dermal
Worker Professional: 3182 mg/kg

Exposure Route: Human Inhalation
Consumer: 65.3 mg/m³

Exposure Route: Human Inhalation
Consumer: 260 mg/m³

Exposure Route: Human Dermal
Consumer: 1872 mg/kg

Exposure Route: Oral
Consumer: 12.5 mg/kg

acetato di n-butile
CAS: 123-86-4

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 300 mg/m³

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

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 300 mg/m³

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.)

acetato di 1-metil-2-
metossietile
CAS: 108-65-6

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)
Consumer: 33 mg/m³

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 36 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 320 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 33 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)
Worker Professional: 550 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 796 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 275 mg/m³

Prodotto di reazione tra
Bis(1,2,2,6,6-pentametil-
4-piperidil) sebacato e
Metil 1,2,2,6,6-
pentametil-4-piperidil
sebacato
CAS: 1065336-91-5

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 1.27 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 1.8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 0.31 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 0.9 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.18 mg/kg

miscela di α-3-(3-(2H-
benzotriazol-2-il)-5-terz-
butil-4-
idrossifenil)propionil-ω-
idrossipoli(ossietilene) e α

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.35 mg/m³

-3-(3-(2H-benzotriazol-2-yl)-5-terz-butyl-4-idrossifenil) propionil- ω -3-(3-(2H-benzotriazol-2-yl)-5-terz-butyl-4-idrossifenil) propionilossipoli (ossietilene)
CAS: 104810-47-1, 104810-48-2

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 0.085 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 0.25 mg/kg

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.025 mg/kg

xilene
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

8.2. Exposure controls

Eye protection:

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

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

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

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: colourless

Odour: N.A.

pH: Not Relevant

Kinematic viscosity: > 20,5 mm²/sec (40 °C)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: 23°C / 60°C

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 1.10 g/cm³

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: The product is classified Flam. Liq. 3 H226
Kinematic viscosity m²/s (40°C) > 20,5 mm²/sec (40 °C)
Viscosity: = 60.00 s - Method: ASTM D 1200 82 - Sezione: 2.00 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

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.

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	The product is classified: Acute Tox. 4(H302) ATEmix - Oral : 1694.92 mg/kg bw ATEmix - Dermal : 2222.22 mg/kg bw ATEmix - Inhalation (Vapours) : 22.2222 mg/l
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
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(H335)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

cicloesanoone	a) acute toxicity	LD50 Oral Ratto = 1620 mg/kg bw LC50 Inhalation Ratto > 6.2 mg/l 4h
silicio diossido	a) acute toxicity	LD50 Oral Ratto > 5000 mg/kg LC0 Inhalation Ratto = 0.139 mg/l 4h - The product does not contain any substance classified for this hazard LD50 Skin Coniglio > 5000 mg/kg

acetato di n-butile	a) acute toxicity	LD50 Oral Ratto = 10760 mg/kg LC50 Inhalation > 20 mg/l 4h LD50 Skin Coniglio > 14112 mg/kg	OECD Test Guideline 423 OECD Test Guideline 402
acetato di 1-metil-2-metossietile	a) acute toxicity	LD50 Oral Ratto > 5000 mg/kg LC0 Inhalation Ratto > 2000 Ppm 3h LD50 Skin Coniglio > 5000 mg/kg	
miscela di α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil-ω-idrossipoli(ossietilene) e α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil) propionil-ω-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil) propionilossipoli (ossietilene)	a) acute toxicity	LD50 Oral Ratto > 5000 mg/kg LC50 Inhalation Ratto = 5.8 mg/l 4h LD50 Skin > 2000 mg/kg	OECD Test Guideline 401 OECD Test Guideline 403 OECD Test Guideline 402
Prodotto di reazione tra Bis(1,2,2,6,6-pentametil-4-piperidil) sebacato e Metil 1,2,2,6,6-pentametil-4-piperidil sebacato	a) acute toxicity	LD50 Oral Ratto = 3230 mg/kg LD50 Skin Ratto = 3170 mg/kg	
xilene	a) acute toxicity	LD50 Oral Topo = 5627 mg/kg LC50 Inhalation Ratto = 6700 Ppm 4h LD50 Skin Coniglio > 5000 mg/kg	

11.2. Information on other hazards

Endocrine disrupting properties:

La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
acetato di n-butile	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Tossicità acquatica acuta : LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203 a) Tossicità acquatica acuta : EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202

		e) Tossicità per le piante : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201
		c) Tossicità per i batteri : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H
acetato di 1-metil-2-metossietile	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Tossicità acquatica acuta : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 100 mg/L 96 H
		a) Tossicità acquatica acuta : EC50 Invertebrates Daphnia magna (Water flea) > 500 mg/L 48 H
		e) Tossicità per le piante : EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H
		b) Tossicità acquatica cronica : NOEC Fish Oryzias latipes (Japanese medaka) = 47.5 mg/L 14 D
		b) Tossicità acquatica cronica : NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D
		e) Tossicità per le piante : NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H
Prodotto di reazione tra Bis(1,2,2,6,6-pentametil-4-piperidil) sebacato e Metil 1,2,2,6,6-pentametil-4-piperidil sebacato	CAS: 1065336-91-5 - EINECS: 915-687-0	e) Tossicità per le piante : EC50 Algae Desmodesmus subspicatus (green algae) = 1.68 mg/L 72 H
		a) Tossicità acquatica acuta : LC50 Fish Brachydanio rerio (zebrafish) = 0.9 mg/L 96 H
		a) Tossicità acquatica acuta : NOEC Invertebrates Daphnia magna = 1 mg/L 21 Days
miscela di α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil-ω-idrossipoli(ossietilene) e α-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionil-ω-3-(3-(2H-benzotriazol-2-il)-5-terz-butil-4-idrossifenil)propionilossipoli(ossietilene)	CAS: 104810-47-1, 104810-48-2 - EINECS: 400-830-7 - INDEX: 607-176-00-3	a) Tossicità acquatica acuta : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.8 mg/L 96 H
		a) Tossicità acquatica acuta : EC50 Invertebrates Daphnia magna (Water flea) = 4 mg/L 48 H
		e) Tossicità per le piante : EC50 Algae Pseudokirchneriella subcapitata (green algae) > 100 mg/L 72 H
		e) Tossicità per le piante : EC10 Algae Pseudokirchneriella subcapitata (green algae) = 10 mg/L 72 H
xilene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Tossicità acquatica acuta : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
		a) Tossicità acquatica acuta : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H
		e) Tossicità per le piante : EC0 Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H
		b) Tossicità acquatica cronica : NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1.3 mg/L 56 D
		e) Tossicità per le piante : Algae Pseudokirchneriella subcapitata (green algae) = 4.36 mg/L 72 H

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

La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

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-Technical name: PAINT

IMDG-Technical name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

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: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

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. 2015/1221 (ATP 7 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)

Regolamento (UE) n. 2021/849 (ATP 17 CLP)

Regolamento (UE) n. 2022/692 (ATP 18 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: 70, 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: altamente contaminante dell'acqua

Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

NOSVHCCOMPS

Dir. 2010/75/CE (Direttiva COV)

Volatile Organic compounds - VOCs = 55.96 %

Volatile Organic compounds - VOCs = 615.61 g/L

Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 44.04 %

Classificazione in accordo con VbF

Classificazione in accordo con VbF Esente

Mal-Code (Denmark)

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number	Regulatory Base
4 - 5	2.215	m3 air/10 g	1993	Administrative determined MAL-Factors

Biocidi

REGOLAMENTO (CE) N. 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.
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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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
2.6/3	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
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
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/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
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]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	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 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- 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 15: Regulatory information
- SECTION 16: Other information