

TERRASCREEN UV Matt Varnish G 22/602 NVK

Version 3.0 SDS_GB

Revision Date 26.09.2019

Print Date 14.07.2020

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

1.1 Product identifier

Trade name : TERRASCREEN UV Matt Varnish G 22/602 NVK

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

Use of the Sub-
stance/Mixture : Printing and reproduction of recorded media
Rolling
The product is intended for professional use.

Recommended restrictions
on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : ACTEGA Terra GmbH
Industriestraße 12
31275 Lehrte

Telephone : +49513250090
Telefax : +4951325009110

E-mail address : qum.actega.terra@altana.com

1.4 Emergency telephone number

||-44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Warning

Hazard statements :
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

- 42978-66-5 Tripropylenglycoldiacrylate
- 2156-97-0 monoalkylor monoaryl or monoalkylaryl esters of acrylic acid
- 52408-84-1 Glycerol, propoxylated, esters with acrylic acid
- 125455-52-9 Siloxanes and Silicones, di-Me, 3-[2-hydroxy-3[1-oxo-2-propenyl)oxy]Propyl)oxy]Propyl-group terminated
- 57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : UV-hardened system

Hazardous components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
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	Registration number		
Tripropylenglycoldiacrylate	42978-66-5 256-032-2 01-2119484613-34	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 25 - < 30
monoalkyl or monoaryl or monoalkylarylesters of acrylic acid	2156-97-0 218-463-4 /	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 12,5 - < 20
2-hydroxy-2-methylpropiophenone	7473-98-5 231-272-0	Acute Tox. 4; H302	>= 5 - < 7
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 5 - < 7
benzophenone	119-61-9 204-337-6	STOT RE 2; H373 Aquatic Chronic 3; H412	>= 1 - < 2,5
Siloxanes and Silicones, di-Me, 3-[2-hydroxy-3[1-oxo-2-propenyl)oxy]Propyl)oxy]Propyl-group terminated	125455-52-9	Skin Sens. 1B; H317	>= 0,5 - < 1
oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1 260-754-3 01-2119484629-21	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0,1 - < 0,25

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
Call a physician if symptoms occur.
Never give anything by mouth to an unconscious person.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.
Do not remove solidified product.
If skin irritation persists, call a physician.
Wash off immediately with plenty of water.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes
and consult a physician.
- If swallowed : Rinse mouth with water.
Do not induce vomiting. Dilute with 1-2 glasses of water. Get
medical aid.

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4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Do not allow run-off from fire fighting to enter drains or water courses.
Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

5.3 Advice for firefighters

Specific extinguishing methods : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.**6.2 Environmental precautions**Environmental precautions : Should not be released into the environment.
Do not allow contact with soil, surface or ground water.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.**6.3 Methods and material for containment and cleaning up**Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Flush with water.
Pick up and transfer to properly labelled containers.**6.4 Reference to other sections**

For personal protection see section 8., For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Provide appropriate exhaust ventilation at machinery. Wear personal protective equipment. Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used. Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Other data : Protect from frost, heat and sunlight. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Paraffin waxes and Hydrocarbon waxes	8002-74-2	TWA (Fumes)	2 mg/m ³	GB EH40
Further information	The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.			
		STEL (Fumes)	6 mg/m ³	GB EH40
Further information	The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.			

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Tripropylenglycoldiacrylate	Industrial use	Skin contact	Long-term systemic effects	2,77 mg/kg
	Industrial use	Inhalation	Long-term systemic effects	24,48 mg/m ³
	Professional use	Skin contact	Long-term systemic effects	1,66 mg/kg
	Professional use	Inhalation	Long-term systemic effects	7,24 mg/m ³
oxybis(methyl-2,1-ethanediyl) diacrylate	Industrial use	Ingestion	Long-term systemic effects	2,08 mg/kg
	Industrial use	Dermal	Long-term systemic effects	2,77 mg/kg
	Industrial use	Inhalation	Long-term systemic effects	24,48 mg/m ³
	Professional use	Dermal	Long-term systemic effects	1,66 mg/kg
	Professional use	Inhalation	Long-term systemic effects	7,24 mg/m ³
	Professional use	Oral	Long-term systemic effects	2,08 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Tripropylenglycoldiacrylate	Fresh water	0,0073 mg/l
	Marine water	0,00073 mg/l
	Intermittent releases	0,073 mg/l
	Fresh water sediment	0,019 mg/kg
	Soil	0,00243 mg/kg
	Sewage treatment plant	100 mg/l
oxybis(methyl-2,1-ethanediyl) diacrylate	Fresh water	0,0034 mg/l
	Marine water	0,00034 mg/l
	Intermittent releases	0,034 mg/l
	Fresh water sediment	0,00884 mg/kg
	Soil	0,0013 mg/kg
	Sewage treatment plant	100 mg/l
	Marine sediment	0,000884 mg/kg

8.2 Exposure controls
Engineering measures

Local exhaust

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Viton (R)
 Glove thickness : 0,4 mm
 Glove length : Gauntlets
 Protective index : Class 4

Remarks : Do not wear PVC gloves, as PVC absorbs acrylates.

Skin and body protection : Work uniform or laboratory coat.

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- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Follow the skin protection plan.
- General advice : Should not be released into the environment.
Do not allow contact with soil, surface or ground water.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : paste
- Colour : beige
- Odour : acrylic-like
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/freezing point : No data available
- Boiling point/boiling range : not determined
- Flash point : Greater than 95 °C
Method: ASTM D 93, Pensky-Martens closed cup
- Evaporation rate : No data available
- Upper explosion limit : Not applicable
- Lower explosion limit : Not applicable
- Vapour pressure : < 0,1 hPa
- Density : ca. 1,10 g/cm³ (20 °C)
Method: DIN 53217
- Solubility(ies)
Water solubility : insoluble
- Ignition temperature : not auto-flammable
- Flow time : No data available

9.2 Other information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

Polymerisation occurs when exposed to white light, ultraviolet light or heat.

10.3 Possibility of hazardous reactions

Hazardous reactions : Violent polymerisation can occur.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.
Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Free radical initiators
Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Tripropylenglycoldiacrylate:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

oxybis(methyl-2,1-ethanediyl) diacrylate:

Acute oral toxicity : LD50 (Rat): 3.530 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation**Components:****oxybis(methyl-2,1-ethanediyl) diacrylate:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation
GLP: no

Serious eye damage/eye irritation**Components:****Tripropylenglycoldiacrylate:**

Species: Rabbit
Method: OECD Test Guideline 405
Result: Eye irritation
GLP: yes

oxybis(methyl-2,1-ethanediyl) diacrylate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irreversible effects on the eye
GLP: yes

Respiratory or skin sensitisation**Product:**

Remarks: May cause sensitisation of susceptible persons by skin contact.

Components:**Tripropylenglycoldiacrylate:**

Test Type: Mouse Local Lymph Node assay (LLNA)
Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.
GLP: yes

oxybis(methyl-2,1-ethanediyl) diacrylate:

Test Type: Mouse Local Lymph Node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: Causes sensitisation.
GLP: yes

Further information**Product:**

Remarks: No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:**Tripropylenglycoldiacrylate:**Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 4,6 - < 10 mg/l
Exposure time: 96 h
Method: DIN 38412Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 89 mg/l
Exposure time: 48 hToxicity to algae : EC50 (Scenedesmus subspicatus): 65,9 mg/l
Exposure time: 72 h**oxybis(methyl-2,1-ethanediyl) diacrylate:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 10 - 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.2
GLP: noToxicity to algae : (Scenedesmus subspicatus): 10 - 100 mg/l
Exposure time: 72 h
Test Type: static test
GLP: no**12.2 Persistence and degradability****Components:****Tripropylenglycoldiacrylate:**Biodegradability : Result: Partially biodegradable.
Method: OECD Test Guideline 301B
GLP: yes**oxybis(methyl-2,1-ethanediyl) diacrylate:**Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301A
GLP: yes**12.3 Bioaccumulative potential****Components:****Tripropylenglycoldiacrylate:**

Partition coefficient: n-octanol/water : log Pow: 2 (25 °C)

oxybis(methyl-2,1-ethanediyl) diacrylate:

Partition coefficient: n- : log Pow: 0,01 - 0,39 (24 °C)

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octanol/water

pH: 7

Method: Regulation (EC) No. 440/2008, Annex, A.8

GLP: yes

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
The product should not be allowed to enter drains, water courses or the soil.
Do not mix waste streams during collection.
Dispose of as hazardous waste in compliance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
The following Waste Codes are only suggestions:
waste paint and varnish containing organic solvents or other dangerous substances

Contaminated packaging : Empty remaining contents.
Packaging that is not properly emptied must be disposed of as the unused product.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR/RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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- IMDG** : N.O.S.
(Tripropylene glycol diacrylate, Dodecyl acrylate)
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Tripropylene glycol diacrylate, Dodecyl acrylate)
Marine Pollutant (Tripropylene glycol diacrylate, Dodecyl acrylate)
- IATA** : Environmentally hazardous substance, liquid, n.o.s.
(Tripropylene glycol diacrylate, Dodecyl acrylate)

14.3 Transport hazard class(es)

- ADR/RID** : 9
- IMDG** : 9
- IATA** : 9

14.4 Packing group

- ADR/RID**
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : E
- IMDG**
Packing group : III
Labels : 9
EmS Code : F-A, S-F
- IATA (Cargo)**
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous substances and articles
- IATA (Passenger)**
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous substances and articles

14.5 Environmental hazards

- ADR/RID**
Environmentally hazardous : yes
- IMDG**
Marine pollutant : yes
- IATA (Passenger)**
Marine pollutant : yes
- IATA (Cargo)**
Marine pollutant : yes

14.6 Special precautions for user

- Remarks : IATA: These substances when transported in single or combination packagings containing a net

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quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.,IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

,ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : naphtha (petroleum)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	Quantity 1	Quantity 2
		200 t	500 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0,08 %, 0,9 g/l
Remarks: VOC content excluding water

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information
Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

- : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
- Sections, highlighted in grey, indicates changes towards the previous version.
- The evaluation of this mixture for the purpose of classification and labeling is based on calculations and bridging principles (essentially similar mixtures, batch analogy).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.