

TERRAGLOSS UV Special Varnish G 8/421 ToySafe

Version 5.0 SDS_GB

Revision Date 15.10.2019

Print Date 14.07.2020

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

1.1 Product identifier

Trade name : TERRAGLOSS UV Special Varnish G 8/421 ToySafe

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.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very 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	:	Danger
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H410 Very 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: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate
- 52408-84-1 Glycerol, propoxylated, esters with acrylic acid
- 55818-57-0 Acrylated Epoxy
- 111497-86-0 2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine
- 57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate
- 13048-33-4 hexamethylene diacrylate

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : UV-hardened system

Hazardous components

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Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2,2-bis(acryloyloxymethyl)butyl acrylate	15625-89-5 239-701-3 01-2119489896-11	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 20 - < 25
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 20 - < 25
Acrylated Epoxy	55818-57-0 01-2119490020-53	Skin Sens. 1; H317	>= 12,5 - < 20
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)]] ester, reaction products with diethylamine	111497-86-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 12,5
oxybis(methyl-2,1-ethanediy) diacrylate	57472-68-1 260-754-3 01-2119484629-21	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 10 - < 12,5
methyl 2-benzoylbenzoate	606-28-0 210-112-3	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 7
Acrylated Polysiloxanes	157811-87-5	Eye Irrit. 2; H319	>= 3 - < 5
hexamethylene diacrylate	13048-33-4 235-921-9 01-2119484737-22	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,25 - < 0,5

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.

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- 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.

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

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/ 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.

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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2-bis(acryloyloxymethyl) butyl acrylate	Workers	Inhalation	Long-term systemic effects	16,2 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0,8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4,9 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,48 mg/kg

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	Consumers	Ingestion	Long-term systemic effects	1,39 mg/kg
oxybis(methyl-2,1-ethanediyl) diacrylate	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
hexamethylene diacrylate	Workers	Inhalation	Long-term exposure, Systemic effects	24,48 mg/m ³
	Workers	Skin contact	Long-term systemic effects	2,77 mg/kg
	Professional use	Skin contact	Long-term systemic effects	1,66 mg/kg
	Professional use	Inhalation	Long-term systemic effects	7,26 mg/m ³

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

Substance name	Environmental Compartment	Value
2,2-bis(acryloyloxymethyl)butyl acrylate	Fresh water	0,00147 mg/l
	Marine water	0,000147 mg/l
	Fresh water sediment	0,0062 mg/kg
	Marine sediment	0,00062 mg/kg
	Sewage treatment plant	6,25 mg/l
	Soil	0,0043 mg/kg
	Intermittent releases	0,0147 mg/l
oxybis(methyl-2,1-ethanediyl) diacrylate	Oral	5,6 mg/kg
	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
hexamethylene diacrylate	Marine sediment	0,000884 mg/kg
	Fresh water	0,0015 mg/l
	Marine water	0,00015 mg/l
	Fresh water sediment	0,0137 mg/kg
	Soil	0,00397 mg/kg
	Sewage treatment plant	2,7 mg/l

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

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Protective index	: Class 4
Remarks	: Do not wear PVC gloves, as PVC absorbs acrylates.
Skin and body protection	: Work uniform or laboratory coat.
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	: liquid
Colour	: yellow, cloudy
Odour	: acrylic-like, fruity
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/cm ³ (20 °C) Method: DIN 53217
Solubility(ies) Water solubility	: insoluble
Ignition temperature	: not auto-flammable
Flow time	: ca. 60 s at 20 °C Cross section: 4 mm Method: DIN 53211

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9.2 Other information

No data available

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 avoidConditions 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****Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

oxybis(methyl-2,1-ethanediyl) diacrylate:Acute oral toxicity : LD50 (Rat): 3.530 mg/kg
Method: OECD Test Guideline 401
GLP: noAcute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes**hexamethylene diacrylate:**Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401Acute dermal toxicity : LD50 (Rabbit): 3.650 mg/kg
Method: OECD Test Guideline 402

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Skin corrosion/irritation**Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

Species: Rabbit

Result: Skin irritation

Remarks: May irritate skin.

May cause skin irritation and/or dermatitis.

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

GLP: no

hexamethylene diacrylate:

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Skin irritation

GLP: yes

Serious eye damage/eye irritation**Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

Species: Rabbit

Method: Draize Test

Result: Eye irritation

Remarks: May cause irreversible eye damage.

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

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

GLP: yes

hexamethylene diacrylate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Respiratory or skin sensitisation**Product:**

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

Components:**2,2-bis(acryloyloxymethyl)butyl acrylate:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Result: May cause sensitisation by skin contact.

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Remarks: Causes sensitisation.

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

hexamethylene diacrylate:

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Causes sensitisation.

Further information

Product:

Remarks: No data is available on the product itself.

Components:

2,2-bis(acryloyloxymethyl)butyl acrylate:

Remarks: No data available

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:

2,2-bis(acryloyloxymethyl)butyl acrylate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,47 mg/l
Exposure time: 96 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 19,9 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : ErC50 (Scenedesmus subspicatus): 4,86 mg/l
Exposure time: 96 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.3.

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

Toxicity to daphnia and other : EC50 (Daphnia magna Straus): 10 - 100 mg/l

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aquatic invertebrates Exposure time: 48 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.2
GLP: no

Toxicity to algae : (Scenedesmus subspicatus): 10 - 100 mg/l
Exposure time: 72 h
Test Type: static test
GLP: no

methyl 2-benzoylbenzoate:

M-Factor (Short-term (acute) : 1
aquatic hazard)

M-Factor (Long-term (chron- : 1
ic) aquatic hazard)

12.2 Persistence and degradability**Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

Biodegradability : Result: Readily 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

hexamethylene diacrylate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 310
GLP: yes

12.3 Bioaccumulative potential**Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

Partition coefficient: n- : log Pow: 0,67 (23 °C)
octanol/water pH: 7,5
Method: OECD Test Guideline 107

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

Partition coefficient: n- : log Pow: 0,01 - 0,39 (24 °C)
octanol/water pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

hexamethylene diacrylate:

Partition coefficient: n- : log Pow: 2,81 (25 °C)
octanol/water Method: OECD Test Guideline 107

12.4 Mobility in soil**Components:****2,2-bis(acryloyloxymethyl)butyl acrylate:**

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Distribution among environmental compartments : Koc: log Koc: 2,2
Method: OECD Test Guideline 121

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.

Components:

2,2-bis(acryloyloxymethyl)butyl acrylate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

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

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14.2 UN proper shipping name

ADR/RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trimethylolpropane triacrylate, Methyl 2-benzoylbenzoate)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trimethylolpropane triacrylate, Methyl 2-benzoylbenzoate) Marine Pollutant (trimethylolpropane triacrylate, Methyl 2-benzoylbenzoate)
IATA	:	Environmentally hazardous substance, liquid, n.o.s. (trimethylolpropane triacrylate, Methyl 2-benzoylbenzoate)

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

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14.6 Special precautions for user

Not applicable

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) : Not applicable

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.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

E1

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0,37 %, 4,12 g/l
Remarks: VOC content excluding water

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
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.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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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.