

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TUBVINYL 270 FF

Version
2.0

Revision Date:
13.02.2020

Date of last issue: 31.07.2015
Date of first issue: 01.08.2014

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

1.1 Product identifier

Trade name : TUBVINYL 270 FF

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

Use of the Sub-
stance/Mixture : Textile auxiliary

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49 7071 154 0
info@cht.com

CHT Switzerland AG
Kriessernstrasse 20
9462 Montlingen
Switzerland
Tel.: +41 71 763 88 11
info.switzerland@cht.com

Importer : -
-
-
-
-
-

Responsible Department : CHT Germany GmbH
CHT Switzerland AG
Product Safety
sds.germany@cht.com
sds.switzerland@cht.com

1.4 Emergency telephone number

**Emergency telephone
number** : +49 7071 154 0 (Germany, 24 hours)
+41 71 763 88 11 (Switzerland, 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements :

Prevention:

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response:

- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous dispersion of styrene-acrylate-copolymer

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-oxybisethanol	111-46-6 203-872-2 603-140-00-6 01-2119457857-21	Acute Tox. 4; H302	$\geq 1 - < 10$
2-methyl-2H-isothiazol-3-one	2682-20-4 220-239-6 01-2120764690-50	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311	$\geq 0,0025 - < 0,025$

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		Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	$\geq 0,0025 - < 0,025$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If symptoms persist, call a physician.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : There may be reddening, swelling associated with itching on contact.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray

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Dry powder
Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Nitrogen oxides (NO_x)
acrylic monomers

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
The product itself does not burn.
The residual polymer after volatilizing the watery phase is combustible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Close drains (risk of blockage caused by polymer precipitation).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : No special protective measures against fire required.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe vapours, aerosols.
Take off all contaminated clothing immediately.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Do always store in containers which correspond to the original ones.
Keep container tightly closed.
Inappropriate material for containers and conduit:
Metals
Suitable material for containers and conduit:
Polyethylene
- Further information on storage conditions : Protect from temperatures over + 40 °C.
Protect from temperatures below + 5 °C.
- Advice on common storage : No special precautions required.

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-oxybisethanol	Workers	Inhalation	Long-term systemic effects	44 mg/m ³
	Workers	Inhalation	Long-term local effects	60 mg/m ³
	Workers	Skin contact	Long-term systemic effects	43 mg/kg bw/day
2-methyl-2H-isothiazol-3-one	Consumers	Inhalation	Long-term systemic effects	12 mg/m ³
	Consumers	Inhalation	Long-term local effects	12 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	21 mg/kg bw/day
2-methyl-2H-isothiazol-3-one	Workers	Inhalation	Long-term local effects	0,021 mg/m ³
	Workers	Inhalation	Acute local effects	0,043 mg/m ³

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	Consumers	Inhalation	Long-term local effects	0,021 mg/m ³
	Consumers	Inhalation	Acute local effects	0,043 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	0,027 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,053 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
2,2'-oxybisethanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	STP	199,5 mg/l
	Intermittent use/release	10 mg/l
	Fresh water sediment	20,9 mg/kg dry weight (d.w.)
	Marine sediment	2,09 mg/kg dry weight (d.w.)
	Soil	1,53 mg/kg dry weight (d.w.)
2-methyl-2H-isothiazol-3-one	Fresh water	3,39 µg/l
	Marine water	3,39 µg/l
	Intermittent use/release	3,39 µg/l
	STP	0,23 mg/l
	Soil	47,1 µg/kg

8.2 Exposure controls

Engineering measures

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : Neoprene

Break through time : > 480 min

Glove thickness : > 0,5 mm

Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
The obtained break through times according to EN 374 Part III are not measured under normal operating conditions.
Therefore a maximum usage time of 50% of the break

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through time is recommended.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : In case the work place is not ventilated sufficiently and during spray processing, it is necessary to wear respiratory protective equipment.
Recommended Filter type:
Combination filter A/P (EN 141)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Dispersion
Colour	:	white
Odour	:	characteristic
pH	:	7,5 - 8,5 (20 °C) (undiluted)
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 23 hPa (20 °C) Water
Relative vapour density	:	Not applicable
Density	:	ca. 1 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Not applicable
Viscosity Viscosity, dynamic	:	90 000 - 100 000 mPa.s (20 °C) Brookfield RVT

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spindle 7
20 rpm

Oxidizing properties : Not applicable

9.2 Other information

Flammability (liquids) : does not ignite

Conductivity : Not determined

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

No decomposition if stored and applied 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

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : Based on available data, the classification criteria are not met.

Components:

2,2'-oxybisethanol:

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Acute oral toxicity : LD50 (Humans): ca. 1 000 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): 13 300 mg/kg

2-methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat): 120 mg/kg
Method: EPA Method

Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rat): 242 mg/kg
Method: OECD Test Guideline 402

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat): 1 020 mg/kg

Acute inhalation toxicity : LC50: > 0,05 - 0,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
value stated in literature

Acute dermal toxicity : LD50 (Rat): > 2 000 mg/kg

Skin corrosion/irritation

Product:

: Prolonged skin contact may cause skin irritation.

Components:

2,2'-oxybisethanol:

Species : Rabbit
Result : No skin irritation

2-methyl-2H-isothiazol-3-one:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes burns.

1,2-benzisothiazol-3(2H)-one:

Result : Irritating to skin.

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Serious eye damage/eye irritation

Product:

: Contact with eyes may cause irritation.

Components:

2,2'-oxybisethanol:

Species : Rabbit
Result : No eye irritation

2-methyl-2H-isothiazol-3-one:

Species : Rabbit
Result : Risk of serious damage to eyes.

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

: This product is classified by the European Union as a skin sensitiser.
May cause an allergic skin reaction.

Components:

2,2'-oxybisethanol:

Test Type : Maximisation Test
Species : Guinea pig
Result : Does not cause skin sensitisation.

2-methyl-2H-isothiazol-3-one:

Result : The product is a skin sensitiser, sub-category 1A.

1,2-benzisothiazol-3(2H)-one:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : May cause sensitisation by skin contact.
: value stated in literature

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Germ cell mutagenicity

Product:

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

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Argument by analogy

Toxicity to algae : No data is available on the product itself.

Toxicity to microorganisms : EC50 (activated sludge): > 1 000 mg/l
Method: Retarded respiration test (OECD 209)
Argument by analogy

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Components:

2,2'-oxybisethanol:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75 200 mg/l
Exposure time: 96 h
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 000 mg/l
Exposure time: 48 h
Test Type: static test
Method: DIN 38412
- Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC20 (activated sludge): > 1 995 mg/l
Exposure time: 0,5 h
Test Type: static test
Method: DIN EN ISO 8192

2-methyl-2H-isothiazol-3-one:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,77 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,934 mg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,22 mg/l
Exposure time: 120 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,05 mg/l
Exposure time: 120 h
Test Type: static test
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (activated sludge): 41 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

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Toxicity to fish (Chronic toxicity) : NOEC: 4,93 mg/l
Exposure time: 98 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,044 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 3,27 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC10 (Selenastrum capricornutum (green algae)): 0,04 mg/l
Exposure time: 72 h
EC50 (Selenastrum capricornutum (green algae)): 0,11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Pseudomonas putida): 13 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,21 mg/l
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,2 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)
Method: OECD Test Guideline 211

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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12.2 Persistence and degradability

Product:

- Biodegradability : Test Type: DOC measuring
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD 302 B (elimination)
Argument by analogy
The product is "inherently biodegradable" according to the criteria of the OECD.
- Biochemical Oxygen Demand (BOD) : 97 mg/g O₂
Incubation time: 5 d
Method: DIN EN 1899-1 (H 55)
- Chemical Oxygen Demand (COD) : 1050 mg/g O₂
Method: DIN 38409-H-41
- Physico-chemical removability : Can be eliminated from water by precipitation.

Components:

2,2'-oxybisethanol:

- Biodegradability : Test Type: DOC measuring
Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 28 d
Method: OECD 301 A (elimination)

2-methyl-2H-isothiazol-3-one:

- Biodegradability : Test Type: CO₂ measuring
Biodegradation: 47,6 - 55,8 %
Exposure time: 29 d
Method: OECD 301 B (mineralisation)

1,2-benzisothiazol-3(2H)-one:

- Biodegradability : Test Type: DOC measuring
Inoculum: activated sludge
Biodegradation: > 70 %
Method: OECD 303A (elimination)
The product is "inherently biodegradable" according to the criteria of the OECD.

12.3 Bioaccumulative potential

Product:

- Bioaccumulation : No data is available on the product itself.
- Partition coefficient: n-octanol/water : Not applicable

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Components:

2,2'-oxybisethanol:

Partition coefficient: n-octanol/water : log Pow: -1,98 (20 °C)

2-methyl-2H-isothiazol-3-one:

Bioaccumulation : Bioconcentration factor (BCF): 5,75

Partition coefficient: n-octanol/water : log Pow: 0,486 (20 °C)
Method: OECD Test Guideline 117

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 6,95
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0,70
Method: OECD Test Guideline 117

12.4 Mobility in soil

Product:

Mobility : 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:

Adsorbed organic bound halogens (AOX) : The product does not increase the AOX-value of the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Pay attention to local or official regulations.

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Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

Remarks : Not applicable

SECTION 15: Regulatory information

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

Other regulations:

Currently no information available.

15.2 Chemical safety assessment

not required

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

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H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

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

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

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TUBVINYL 270 FF

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2.0

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data.

This data sheet contains changes from the previous version in section(s):

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Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

Classification of the mixture:

Skin Sens. 1

H317

Classification procedure:

Calculation method

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.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.