

Trodat GmbH
4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 1 / 11

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

1.1 Product identifier

Trodat dryteq ink

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

1.2.1 Relevant uses

Ink

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Trodat GmbH
Linzerstr. 156
4600 Wels / AUSTRIA
Phone +43 (0) 7242 239 - 0
Fax +43 (0) 7242 239 - 940
Homepage www.trodat.net
E-mail trodat@trodat.net

Address enquiries to

Technical information trodat@trodat.net
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)
Company +43 (0) 7242 239 - 0 Mo-Fr 8:00 - 16:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Irrit. 2: H315 Causes skin irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Eye Dam. 1: H318 Causes serious eye damage.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

Hexamethylene diacrylate
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
oxybis(methyl-2,1-ethanediyl) diacrylate

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / 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 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.

Trodat GmbH
4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 2 / 11

2.3 Other hazards

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
25 - < 30	Hexamethylene diacrylate CAS: 13048-33-4, EINECS/ELINCS: 235-921-9, EU-INDEX: 607-109-00-8 GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 3: H412
20 - < 25	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate CAS: 66492-51-1, EINECS/ELINCS: 266-380-7 GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
10 - < 15	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid CAS: 55818-57-0, EINECS/ELINCS: 500-130-2, Reg-No.: 01-2119490020-53-XXXX GHS/CLP: Skin Sens. 1: H317
3 - < 5	oxybis(methyl-2,1-ethanediyl) diacrylate CAS: 57472-68-1, EINECS/ELINCS: 260-754-3, Reg-No.: 01-2119484629-21-XXXX GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Skin Sens. 1: H317
1 - < 3	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate CAS: 42978-66-5, EINECS/ELINCS: 256-032-2, EU-INDEX: 607-249-00-X, Reg-No.: 01-2119484613-34-XXXX GHS/CLP: Skin Sens. 1: H317 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Aquatic Chronic 2: H411
1 - < 2	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide CAS: 75980-60-8, EINECS/ELINCS: 278-355-8, EU-INDEX: 015-203-00-X GHS/CLP: Skin Sens. 1: H317 - Repr. 2: H361 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor immediately.
Shield unaffected eye.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 3 / 11

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Metal oxides.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Wear suitable protective equipment. For personal protection see SECTION 8.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink, smoke or take drugs at work.

Wash face and/or hands before break and end of work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with reducing agents.

Do not store together with acids and alkalies.

Keep container in a well-ventilated place.

Keep container tightly closed.

Protect from heat/overheating.

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 4 / 11

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
oxybis(methyl-2,1-ethanediyl) diacrylate, CAS: 57472-68-1
Industrial, dermal, Long-term - systemic effects: 2,77 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 24,48 mg/m ³ .
general population, oral, Long-term - systemic effects: 2,08 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 1,66 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 7,24 mg/m ³ .
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, CAS: 55818-57-0
Industrial, dermal, Long-term - systemic effects: 33 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 1,17 mg/m ³ .
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
Industrial, dermal, Long-term - systemic effects: 1,7 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 2,94 mg/m ³ .

PNEC

Substance
oxybis(methyl-2,1-ethanediyl) diacrylate, CAS: 57472-68-1
seawater, 0 mg/L.
sewage treatment plants (STP), 100 mg/l.
sediment (freshwater), 0,009 mg/kg.
soil, 0,001 mg/kg.
freshwater, 0,003 mg/L.
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, CAS: 55818-57-0
soil, 7,1 mg/kg soil dw.
freshwater, 0,1 mg/l.
seawater, 0,01 mg/l.
sediment (seawater), 3,58 mg/kg sediment dw.
sewage treatment plants (STP), 10 mg/L.
sediment (freshwater), 35,8 mg/kg sediment dw.
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
soil, 0,002 mg/kg soil dw.
freshwater, 0,007 mg/L.
seawater, 0,001 mg/L.
sewage treatment plants (STP), 100 mg/L.
sediment (freshwater), 0,033 mg/kg sediment dw.
sediment (seawater), 0,003 mg/kg sediment dw.

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 5 / 11

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	safety glasses (EN 166:2001)
Hand protection	> 0,5 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Do not inhale vapours. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: combination filter A-P3. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	various
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 100
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 6 / 11

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

Reactions with reducing agents.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.

Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

In the event of fire: See SECTION 5.

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 7 / 11

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Substance
oxybis(methyl-2,1-ethanediyl) diacrylate, CAS: 57472-68-1
LD50, oral, Rat: > 2000 mg/kg.
LD50, dermal, Rabbit: > 2000 mg/kg.
LC50, inhalative, Rat: > 5 mg/l/4h.
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, CAS: 55818-57-0
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg.
Hexamethylene diacrylate, CAS: 13048-33-4
LD50, dermal, Rabbit: 3650 mg/kg (OECD 402).
LD50, oral, Rat: > 5000 mg/kg (OECD 401).
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate, CAS: 66492-51-1
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg.
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID).
LD50, oral, Rat: > 3000 mg/kg (IUCLID).
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.

Serious eye damage/irritation	Risk of serious damage to eyes. Calculation method
Skin corrosion/irritation	Irritant Calculation method
Respiratory or skin sensitisation	May cause an allergic skin reaction. Calculation method
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	This product contains one or more substances of categorie Repr. 2 (CLP). Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 8 / 11

SECTION 12: Ecological information**12.1 Toxicity**

Substance
oxybis(methyl-2,1-ethanediyl) diacrylate, CAS: 57472-68-1
LC50, (96h), fish: 1 - 10 mg/l.
EC50, (72h), Algae: 10 - 100 mg/l.
EC50, (48h), Daphnia magna: 10 - 100 mg/l.
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, CAS: 55818-57-0
EC50, (3h), Activated sludge: > 1000 mg/l (OECD 209).
EL50, (72h), Pseudokirchneriella subcapitata: 105 mg/l (OECD 201).
EL50, (48h), Daphnia magna: > 100 mg/l (OECD 202).
LL50, (96h), Cyprinus carpio: > 100 mg/l (ISO 7346/1).
Hexamethylene diacrylate, CAS: 13048-33-4
LC50, (96h), Leuciscus idus: 4,6 - 10 mg/l (DIN 38412-15).
EC50, (48h), Daphnia magna: 2,6 mg/l.
EC50, (0,5h), Activated sludge: 270 mg/l (OECD 209).
ErC50, (72h), Desmodesmus subspicatus: 1,5 mg/l (DIN 38412-9).
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate, CAS: 66492-51-1
LC50, (96h), Oncorhynchus mykiss: 4 mg/l (OECD 203).
EC50, (72h), Desmodesmus subspicatus: 34 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 20 mg/l (OECD 202).
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
LC50, (96h), Leuciscus idus: 4,5-<10 mg/l (IUCLID).
EC50, (72h), Scenedesmus subspicatus: > 28 mg/l (IUCLID).
EC50, (48h), Daphnia magna: 88,7 mg/l (IUCLID).
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
LC50, (96h), Danio rerio: 1 -10 mg/l.
EC50, (48h), Daphnia magna: 3,53 mg/l (OECD 202).
EC50, (72d), Pseudokirchneriella subcapitata: 2,01 mg/l (OECD 201).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	CAS 66492-51-1: 28%, 28d (OECD 301B) CAS 13048-33-4: 60 - 70%, 28d (OECD 310) CAS 55818-57-0: 42%, 28d (OECD 301F) CAS 42978-66-5: 48%, 28d (OECD 301B) CAS 75980-60-8: 0 - 10%, 28d (OECD 301F)

12.3 Bioaccumulative potential

CAS 66492-51-1: log Kow = 1,9 (23°C)(OECD 117)
CAS 13048-33-4: log Kow = 2,81 (25°C)(OECD 107)
CAS 55818-57-0: log Kow = 1,6 - 3 (OECD 117)
CAS 42978-66-5: log Kow = 2 (OECD 107)
CAS 75980-60-8: BCF = 18 - 22

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 9 / 11

12.4 Mobility in soil

CAS 66492-51-1: log Koc = 1,06
 CAS 13048-33-4: log Koc = 2,1
 CAS 55818-57-0: log Koc = 2,6 - 3,55 (OECD 121)
 CAS 42978-66-5: log Koc = 1

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
 The product contains organically bound halogen in accordance with the formulation.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.
 Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080111*
 080312*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
 Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*
 150102

SECTION 14: Transport information**14.1 UN number**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 10 / 11

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- **Observe employment restrictions for people** Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- **VOC (2010/75/CE)** not applicable

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

CAS 66492-51-1 / CAS 13048-33-4 / 55818-57-0 / CAS 42978-66-5

Trodat GmbH

4600 Wels

Date printed 20.05.2019, Revision 20.05.2019

Version 01

Page 11 / 11

SECTION 16: Other information**16.1 Hazard statements
(SECTION 03)**

H361 Suspected of damaging fertility or the unborn child.
 H335 May cause respiratory irritation.
 H318 Causes serious eye damage.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H315 Causes skin irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none



Copyright: Chemiebüro®

