



TOX-DÜBEL-TECHNIK GmbH
72505 Krauchenwies

Date printed 29.11.2022, Revision 20.10.2022

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

1.1 Product identifier

Liquix Repair Fill

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

1.2.1 Relevant uses

Filler

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

TOX-DÜBEL-TECHNIK GmbH
Brunnenstrasse 31
72505 Krauchenwies / GERMANY
Phone +49 (0)7576 9295-123
Fax +49 (0) 7576 / 9295 -190
Homepage www.tox.de
E-mail info@tox.de

Address enquiries to

Technical information

info@tox.de

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company

+49 (0) 7576-9295-123 Mo-Fr 7:00 - 17:00

SECTION 2: Hazards identification

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

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

none

Signal word

none

Hazard statements

none

Precautionary statements

P102 Keep out of reach of children.

Special labelling

EUH210 Safety data sheet available on request.

Contains: Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one. EUH208 May produce an allergic reaction.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1	Titanium dioxide CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX
0,01 - < 0,05	1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5, EINECS/ELINCS: 220-120-9, EU-INDEX: 613-088-00-6, Reg-No.: 01-2120761540-60-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 1 SCL [%]: >= 0,05: Skin Sens. 1: H317
< 0,0015	Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one CAS: 55965-84-9, EINECS/ELINCS: 911-418-6, Reg-No.: 01-2120764691-48-XXXX GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 2: H310 H330 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100 SCL [%]: >= 0,0015: Skin Sens. 1A: H317, 0,06 - <0,6: Skin Irrit. 2: H315, >= 0,6: Skin Corr. 1C: H314, 0,06 - <0,6: Eye Irrit. 2: H319, >= 0,6: Eye Dam. 1: H318

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	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean 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. If eye irritation persists: Get medical advice/attention.
Ingestion	Get medical advice. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.

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.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.
Reste mechanisch aufnehmen.

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.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Take off contaminated clothing and wash before reuse.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with food and animal food/diet.
Protect from heat/overheating.
Keep container tightly closed.
Keep away from frost.

storage class (TRGS 510)

Storage class 12 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (DE)

not relevant

DNEL

Substance
Titanium dioxide, CAS: 13463-67-7
There are no DNEL values established for the substance.
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
Industrial, dermal, Long-term - systemic effects, 0,966 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 6,81 mg/m ³
general population, dermal, Long-term - systemic effects, 0,345 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1,2 mg/m ³
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
Industrial, inhalative, Acute - local effects, 0,04 mg/m ³
Industrial, inhalative, Long-term - local effects, 0,02 mg/m ³
general population, oral, Acute - systemic effects, 0,11 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,09 mg/kg bw/day
general population, inhalative, Long-term - local effects, 0,02 mg/m ³
general population, inhalative, Acute - local effects, 0,04 mg/m ³

PNEC

Substance
Titanium dioxide, CAS: 13463-67-7
There are no PNEC values established for the substance.
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
soil, 3 mg/kg soil dw
sediment (freshwater), 4,99 µg/kg sediment dw
sediment (freshwater), 49,9 µg/kg sediment dw
seawater, 0,403 µg/L
freshwater, 4,03 µg/L
sewage treatment plants (STP), 1,03 mg/L
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
soil, 0,01 mg/kg soil dw
sediment (seawater), 0,027 mg/kg sediment dw
sediment (freshwater), 0,027 mg/kg sediment dw
sewage treatment plants (STP), 0,23 mg/L
seawater, 3,39 µg/L
freshwater, 3,39 µg/L



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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 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	light protective clothing
Other	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.
Respiratory protection	For spray applications, use a suitable respirator. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
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

Physical state	highly viscous
Form	
Color	white
Odor	characteristic
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	> 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	2,3
Density [g/cm³]	1,3 - 1,5
Relative density	1,8
Bulk density [kg/m³]	not applicable
Solubility in water	partially soluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not determined
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

none



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SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Sensitive to frost

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Titanium dioxide, CAS: 13463-67-7
LD50, oral, Rat, > 10000 mg/kg
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, oral, Rat, 490 - 670 mg/kg bw
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LD50, oral, Rat, 64 mg/kg

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, dermal, Rat, > 2000 mg/kg bw
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LD50, dermal, Rabbit, 87 mg/kg

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Titanium dioxide, CAS: 13463-67-7
LD50, inhalative, Rat, > 6,8 mg/l (4 h)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LC50, inhalative, Rat, 0,33 mg/L 4h

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
Eye, non-irritating
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
in vitro, OECD 437, Can cause irreversible damage to the eyes.
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
Eye, Rabbit, In vivo study, corrosive

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
dermal, non-irritating



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1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
dermal, Rabbit, In vivo study, non-irritating
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
dermal, Rabbit, OECD 404, corrosive

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
inhalative, non-sensitizing
dermal, non-sensitizing
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
dermal, Guinea pig, In vivo study, sensitising
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
dermal, In vivo study, sensitising

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
inhalative, non-irritating

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
NOAEL, oral, Rat, 69 - 150 mg/kg bw/day, The effects observed are not sufficient for classification.
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, dermal, Rat, 0,1 mg/kg bw/day, In vivo study, The effects observed are not sufficient for classification.
NOAEL, oral, Dog, 22 mg/kg bw/day, OECD 409, The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 2,36 mg/m ³ , OECD 413, The effects observed are not sufficient for classification.

Mutagenicity Based on the available information, the classification criteria are not fulfilled.
Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
in vivo, no adverse effect observed
in vitro, no adverse effect observed
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
in vitro, OECD 476, no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
In vitro study, no adverse effect observed

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

Substance
Titanium dioxide, CAS: 13463-67-7
NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
NOAEL, oral, Rat, 112 mg/kg bw/day, no adverse effect observed
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9



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NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 415, no adverse effect observed, Effect on developmental toxicity,
NOAEL, oral, Rat, 22,7 mg/kg bw/day, OECD 416, no adverse effect observed, Effects on fertility,

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Substance
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
NOAEL, oral, Rat, 17,2 mg/kg bw/day, OECD 453, no adverse effect observed

Aspiration hazard

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Titanium dioxide, CAS: 13463-67-7
LC0, (48h), Leuciscus idus, > 1000 mg/l
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LC50, (96h), fish, 2.15 - 22 mg/L
EC50, (72h), Algae, 70 - 150 µg/L
EC50, (48h), Invertebrates, 2.9 - 2.94 mg/L
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, CAS: 55965-84-9
LC50, (96h), Oncorhynchus mykiss, 0,22 mg/L OECD 203
EC50, (48h), Skeletonema costatum, 0,0052 mg/L (ISO 10253) RAC
EC50, (72h), Pseudokirchneriella subcapitata, 0,048 mg/L OECD 201
EC50, (48h), Daphnia magna, 0,1 mg/L OECD 202
NOEC, (72h), Pseudokirchneriella subcapitata, 0,0012 mg/L OECD 201
NOEC, (28d), Oncorhynchus mykiss, 0,098 mg/L OECD 215
NOEC, (21d), Daphnia magna, 0,004 mg/L OECD 211
NOEC, (48h), Skeletonema costatum, 0,00064 mg/L (ISO 10253) RAC

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.



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12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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.

Waste no. (recommended)

080410

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID 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"



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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 Maritime transport in bulk according to IMO instruments

not applicable



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SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
NATIONAL REGULATIONS (DE):	Hazardous Substances Ordinance - GefStoffV 2016; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	no
- Class. according to TA-Luft	not applicable
Storage class (TRGS 510)	Storage class 12 (VCI)
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	not relevant
- Other regulations	TRGS 510: Storage of hazardous substances in non-stationary containers

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H314 Causes severe skin burns and eye damage.
H310+H330 Fatal in contact with skin or if inhaled.
H301 Toxic if swallowed.
H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H302 Harmful if swallowed.



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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
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
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
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
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

Modified position

none



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