Tintometer[®] Group Water Testing



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.12.2023 Version number 58 (replaces version 57) Revision: 08.12.2023

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

- · 1.1 Product identifier
- Product name: Phosphate HR
- · Catalog number: 00511981, 511980BT, 501980, 00511989BT, 00501980, 00511980BT
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier:

Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond® House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

Informing department: e-mail: sds@lovibond.com Product Safety Department

· 1.4 Emergency telephone number:

+44 1235 239670 Languages: English

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H332 Harmful if inhaled.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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Product name: Phosphate HR

· Hazard pictograms

(Contd. of page 1)







GHS05

GHS07 GHS08

· Signal word Danger

Hazard-determining components of labelling:

dipotassium disulfate

boric acid

sodium bisulfate

· Hazard statements

Harmful if inhaled. H332

H314 Causes severe skin burns and eye damage.

H360FD May damage fertility. May damage the unborn child.

Precautionary statements

Wear protective gloves/protective clothing/eye protection.

P201 Obtain special instructions before use.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. P308+P313

P405 Store locked up.

· Additional information:

Restricted to professional users.

· 2.3 Other hazards No further relevant information available.

· Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of inorganic compounds.

| CAS: 10043-35-3 boric acid EINECS: 233-139-2 Reg.nr.: 01-2119486683-25-XXXX | 40–50% |
|--|---|
| | |
| CAS: 7790-62-7 EINECS: 232-216-8 Ø Acute Tox. 3, H331; Ø Skin C ATE: LD50 oral: 2500 mg/kg LC50/4h inhalative: 0.5 mg/l | 30–40% orr. 1A, H314; Eye Dam. 1, H318 |
| CAS: 7681-38-1 sodium bisulfate EINECS: 231-665-7 | 5–10% |
| CAS: 7803-55-6 ammonium meta-vanadate EINECS: 232-261-3 | 0.25-<1% R, H361fd; STOT RE 1, H372; � Aquatic H332; Eye Irrit. 2, H319 |

CAS: 10043-35-3 boric acid

SVHC (UK)

CAS: 10043-35-3 boric acid

Additional information For the wording of the listed hazard phrases refer to section 16.

GB

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation

Supply fresh air.

Get medical advice/attention.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek medical treatment.

· After eye contact Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink 1-2 glasses of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed:

burns

absorption

after inhalation:

mucosal irritations, cough, shortness of breath

after swallowing:

sickness

vomiting

diarrhoea

strong caustic effect.

after absorption of large amounts:

CNS disorders

ataxia (impaired locomotor coordination)

drop in temperature

cardiovascular disorders

fatique

- Danger Danger of pulmonary oedema.
- 4.3 Indication of any immediate medical attention and special treatment needed:

If swallowed or in case of vomiting, danger of entering the lungs

Subsequent observation for pneumonia and pulmonary oedema

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Sulphur oxides (SOx)

Nitrogen oxides (NOx)

smoke of metal oxide

Sodium oxide

Dipotassium oxide

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Advice for non-emergency personnel:

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

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Ensure adequate ventilation

(Contd. of page 3)

Use breathing protection against the effects of fumes/dust/aerosol.

- · Advice for emergency responders: Protective equipment: see section 8
- 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.
- · 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- · Advice on safe handling: Provide suction extractors if dust is formed.
- · Hygiene measures:

Do not inhale dust / smoke / mist.

Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing.

Store protective clothing separately.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke when using this product.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and containers: Store in cool location.
- Information about storage in one common storage facility: see chapter 10
- · Further information about storage conditions:

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed containers.

Protect from the effects of light.

Protect from humidity and keep away from water.

This product is hygroscopic.

- · Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Derived No Effect Level (DNEL)

| CAS: 10043-35-3 boric acid | | | | |
|----------------------------|------|--|--|--|
| Oral | DNEL | 0.98 mg/kg (Consumer / acute / systemic effects) | | |
| | | 0.98 mg/kg (Consumer / long-term / systemic effects) | | |
| Dermal | DNEL | 392 mg/kg (Worker / long-term /systemic effects) | | |
| | | 196 mg/kg (Consumer / long-term / systemic effects) | | |
| Inhalative | DNEL | 8.3 mg/m³ (Worker / long-term /systemic effects) | | |
| | | 4.15 mg/m³ (Consumer / long-term / systemic effects) | | |

Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and **DIN EN 689.**

· PNECs

Predicted No Effect Concentration (PNEC)

| CAS: 10043-35-3 boric acid | |
|---------------------------------------|--------------------|
| PNEC 10 mg/l (Sewage treatment plant) | |
| | (Contd. on page 5) |

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2.02 mg/l (Marine water)

13.7 mg/l (Aquatic intermittent release)

2.02 mg/l (Fresh water)

PNEC 5.4 mg/kg (Soil)

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7

· Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

· Eye/face protection

Tightly sealed safety glasses.

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

· Hand protection

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Penetration time of glove material

Value for the permeation: Level = 1 (< 10 min)

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Other skin protection (body protection): Protective work clothing.
- Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P3
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical and chemical properties | | |
|---|---------|--|
| Physical state | Solid. | |
| Form: | Tablets | |

Form:
Colour:
White
Odourless
Odour threshold:
Not applicable.
Melting point/Freezing point:
Not determined.
Boiling point or initial boiling point and boiling range
Not determined.

• Flammability The product is not combustible.
• Explosive properties: Product is not explosive.

· Lower and upper explosion limit

Lower:
Upper:
Not applicable.
Not applicable.
Flash point:
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not determined.
Not determined.
Not determined.
Not applicable (solid).

· Solubility

· Water: Soluble

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not applicable (mixture).
 Not applicable (solid).

Density and/or relative density

Density:
Relative density:
Relative gas density
Particle characteristics
Not determined.
Not applicable (solid).
Not determined.

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· 9.2 Other information

· Information with regard to physical hazard classes

Corrosive to metals Void

· Other safety characteristics

· Oxidising properties: none

Additional information

· Solids content: 100 %

SECTION 10: Stability and reactivity

- · 10.1 Reactivity see section 10.3
- 10.2 Chemical stability Stable at ambient temperature (room temperature).
- · 10.3 Possibility of hazardous reactions

Aqueous solution reacts acidic.

Forms hydrogen in aqueous solution with metals

Aqueous solution reacts with metals.

Reacts with alkali (lyes)

Reacts with strong oxidizing agents

Liberates acid in contact with water or alcohol.

Reacts with strong alkalis and oxidizing agents.

- · 10.4 Conditions to avoid Heating (decomposition)
- · 10.5 Incompatible materials: metals
- · 10.6 Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

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

Classification according to calculation procedure:

Harmful if inhaled.

| · Acute tox | icity estir | nate (ATE _(MIX)) - Calculation method: | | |
|--|--------------------------------------|---|--|--|
| Inhalative CLP ATE _(MIX) 1.3 mg/l/4h (dust) | | | | |
| · LD/LC50 v | values tha | at are relevant for classification: | | |
| CAS: 1004 | 43-35-3 b | oric acid | | |
| Oral | LD50 | 2660 mg/kg (rat) (OECD 401) (GESTIS, ECHA registrant) | | |
| Dermal | LD50. | >2000 mg/kg (rat) (ECHA, registrant: no deaths occurred.) | | |
| | LD₀ | 1500 mg/kg (child) (MERCK) | | |
| | NOAEL | 9.6 mg/kg (rat) (NTP) | | |
| CAS: 7790 | CAS: 7790-62-7 dipotassium disulfate | | | |
| Oral | LD50 | 2500 mg/kg (ATE) (Read across 7664-93-9: LD₅₀(rat) = 2140 mg/kg, ECHA) | | |
| Inhalative | LC50/4h | 0.5 mg/l (ATE) (Aerosol) (Read across 7664-93-9: LD ₅₀ (rat, 4h) = \sim 850 mg/m³, ECHA) | | |
| CAS: 7681 | 1-38-1 so | dium bisulfate | | |
| Oral | LD50 | 2490 mg/kg (rat) (IUCLID) | | |
| Dermal | LD50. | >2000 mg/kg (rabbit) | | |
| CAS: 7803 | 3-55-6 am | monium meta-vanadate | | |
| Oral | LD50 | 169 mg/kg (rat) (OECD 401) (Merck) (Contd. on page 7) | | |

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Dermal LD50. >2500 mg/kg (rat) (OECD402) (Registrant, ECHA: limit-test, all test animals survived at this concentration)

Inhalative LC50/4h (Merck) (OECD 403) (Merck)

- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation

Causes serious eye damage.

Risk of blindness!

| THOR OF DIFFICITIONS. | | | | |
|------------------------------|---------------------------------------|---|--|--|
| · Information on components: | | | | |
| CAS: 10043-35- | CAS: 10043-35-3 boric acid | | | |
| Irritation of skin | OECD 404 | (rabbit: no irritation) (Registrant, ECHA) | | |
| Irritation of eyes | OECD 492 | (rabbit: slight irritation) (IUCLID) | | |
| CAS: 7681-38-1 | CAS: 7681-38-1 sodium bisulfate | | | |
| Irritation of skin | OECD 404 | (rabbit: no irritation) | | |
| Irritation of eyes | OECD 492 | (rabbit: severe irritations) | | |
| CAS: 7803-55-6 | CAS: 7803-55-6 ammonium meta-vanadate | | | |
| Irritation of skin | OECD 404 | (rabbit: no irritation) | | |
| Irritation of eyes | OECD 405 | (rabbit: irritation) | | |

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Information on components:

CAS: 10043-35-3 boric acid

Sensitisation OECD 406 (guinea pig: negative)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity May damage fertility. May damage the unborn child.

· Information on components:

CAS: 10043-35-3 boric acid

OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test)
OECD 476 (negative) (In Vitro Mammalian Cell Gene Mutation Test)
(mouse lymphomea test)
OECD 414 (negative) (oral, rat)
(ECHA, registrant: no evidence of developmental toxicity up to 55 mg/kg bw. At 76 mg/kg bw there was reduced fetal bodyweight, short and wavy ribs, and these effects disappeared during the postnatal period.)
OECD 474 (negative) (in vivo, mice)

CAS: 7803-55-6 ammonium meta-vanadate

OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test)

- · STOT (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.
- · STOT (specific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

· Information on likely routes of exposure

"Under occupational conditions, the main intake pathway for boric acid (CAS 10043-35-3) proceeds via the respiratory tract. Furthermore, the uptake of the solid or its concentrated solutions should be expected following contact with damaged or inflamed skin." (GESTIS)

· Additional toxicological information:

In case of an acute molybdenum(VI) intoxication: diarrhoea, anaemia, fatigue, loss of appetite. Toxic effect on liver and kidneys after

high doses.

CAS 10043-35-3: Absorption through gastro-intestinal tract, mucous membranes

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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CAS: 10043-35-3 boric acid

(source: GESTIS)

Main toxic effects:

Acute: Slightly irritating to the eyes and skin; gastrointestinal disturbances, CNS-effects and (later) skin damage after massive

Chronic: Irritation to the mucous membranes following inhalative exposure, effects to the gastrointestinal tract and CNS

Further Information (Merck):

"Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, anderythematous lesions on the skin and mucous membranes.

Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma.

Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams."

"Liver - Irregularities - Based on Human Evidence"

- · 11.2 Information on other hazards
- · Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

SECTION 12: Ecological information

· 12.1 Toxicity

| • | Aquat | ic to | XiCi | ty: |
|---|-------|-------|------|-----|
| | | | | |

CAS: 10043-35-3 boric acid

133 mg/l/48h (Daphnia magna)

(ECOTOX)

50-100 mg/l/96h (rainbow trout) LC50 (ECOTOX)

CAS: 7681-38-1 sodium bisulfate

EC50 190 mg/l/48h (Daphnia magna)

(IUCLID)

CAS: 7803-55-6 ammonium meta-vanadate

NOEC 0.87 mg/l (fish) (30d)

(ECHA: Clarias batrachus)

2.6 mg/l/96h (fish) LC50

(ECOTOX: Ictalurus catus)

Bacterial toxicity:

sulphates toxic > 2.5 g/l

CAS: 7681-38-1 sodium bisulfate

EC10 >1000 mg/l (Pseudomonas putida) (16 h)

Other information:

Toxic for fish:

Sulphates > 7 g/l

molybdenum compounds in general: > 25 mg/l

 $NH_4^+ > 0.3 \text{ mg/l}$

· 12.2 Persistence and degradability .

Other information:

Mixture of inorganic compounds.

Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 10043-35-3 boric acid

log Pow -1.09 (.) (OECD 107, 22°C)

(Merck)

· 12.4 Mobility in soil No further relevant information available.

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· 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects Avoid transfer into the environment.
- · Water hazard:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

European waste catalogue

16 05 07* discarded inorganic chemicals consisting of or containing hazardous substances

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

| · 14.1 UN number or ID number · ADR, IMDG, IATA | UN1759 |
|---|--|
| · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1759 CORROSIVE SOLID, N.O.S. (dipotassium disulfate) CORROSIVE SOLID, N.O.S. (dipotassium disulfate) |

- · 14.3 Transport hazard class(es)
- · ADR



· Class 8 (C10) Corrosive substances. Label 8

· IMDG, IATA



ClassLabel8 Corrosive substances.8

· 14.4 Packing group

· ADR, IMDG, IATA

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Warning: Corrosive substances.

· Kemler Number: 80 · EMS Number: F-A.S-B

• Segregation groups (SGG1) Acids, (SGG2) ammonium compounds

· Stowage Category

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

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· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1 kg · Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

Transport category 2
Tunnel restriction code E

·IMDG

Limited quantities (LQ) 1 kg
Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act UK
- · Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- · Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated
- Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

- · Substances of very high concern (SVHC) according to REACH, Article 57 see item 3 SVHC
- Substances of very high concern (SVHC) according to UK REACH see item 3 SVHC
- · Directive 2012/18/EU (SEVESO III):
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30
- · Information about limitation of use:

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).

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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Training hints Provide adequate information, instruction and training for operators.

Relevant phrases

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

Harmful if inhaled. H332

H360FD May damage fertility. May damage the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure. H372

H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure RE: repeated exposure

EC50: half maximal effective concentration IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of

Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Sources

Data arise from safety data sheets, reference works and literature.

GESTIS- Stoffdatenbank (Substance Database, Germany)

ECHA: European CHemicals Agency http://echa.europa.eu

IUCLID (International Uniform Chemical Information Database)

ECOTOX Database

* Data compared to the previous version altered.