



Safety Data Sheet according to (EC) No 1907/2006 as amended

Page 1 of 19

POLYFOAM SS-45

SDS No. : 574627
V004.0

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

1.1. Product identifier

POLYFOAM SS-45

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

Intended use:

Insulation material

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

| | |
|---|------------|
| Chronic hazards to the aquatic environment | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. | |
| Hazardous to the ozone layer | Category 1 |
| H420 Harms public health and the environment by destroying ozone in the upper atmosphere. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Warning

| | |
|--|---|
| Hazard statement: | H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. H420 Harms public health and the environment by destroying ozone in the upper atmosphere. |
| Supplemental information | Contains: dibutyltin dilaurate May produce an allergic reaction. |
| Precautionary statement: Prevention | P273 Avoid release to the environment. P280 Wear protective gloves/eye protection. |
| Precautionary statement: Response | P302+P352 IF ON SKIN: Wash with plenty of soap and 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. P337+P313 If eye irritation persists: Get medical advice/attention. |

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

| | |
|--|----------|
| octamethylcyclotetrasiloxane 556-67-2 | PBT/vPvB |
|--|----------|

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No.: 574627 V004.0

Page 3 of 19

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. | EC Number | content | Classification |
|--|-----------|---------------|---|
| Ethane, 1,1-dichloro-1-fluoro- 1717-00-6 | | 10- < 20 % | Aquatic Chronic 3 H412 Ozone 1 H420 |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | 237-158-7 | 5- < 10 % | Acute Tox. 4; Oral H302 Aquatic Chronic 3 H412 |
| 2-Dimethylaminoethanol 108-01-0 | 203-542-8 | 1- < 3 % | Acute Tox. 3; Inhalation H331 Acute Tox. 4; Oral H302 Flam. Liq. 3 H226 Acute Tox. 4; Dermal H312 Skin Corr. 1B H314 Eye Dam. 1 H318 |
| Cyclohexyldimethylamine 98-94-2 | 202-715-5 | 0,1- < 1 % | Aquatic Chronic 2 H411 Flam. Liq. 3 H226 Acute Tox. 3; Oral H301 Acute Tox. 3; Dermal H311 Acute Tox. 3; Inhalation H331 Skin Corr. 1B H314 Eye Dam. 1 H318 |
| dibutyltin dilaurate 77-58-7 | 201-039-8 | 0,1- < 0,3 % | Eye Irrit. 2 H319 Skin Sens. 1 H317 Muta. 2 H341 Repr. 1B H360FD STOT SE 1 H370 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Acute Tox. 4; Oral H302 |
| octamethylcyclotetrasiloxane 556-67-2 | 209-136-7 | 0,1- < 0,25 % | Aquatic Chronic 1 H410 Repr. 2 H361f Flam. Liq. 3 H226 ===== |
| | | | EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) |

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

SKIN: Redness, inflammation.

Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation.

Cool and dry, in tightly closed containers.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with oxidants.

Do not store together with flammable solutions.

7.3. Specific end use(s)

Insulation material

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Utd.Arab.Emir.

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN ORGANIC COMPOUNDS, AS SN] | | 0,1 | Time Weighted Average (TWA): | | AD TLV |
| Dibutyltin dilaurate 77-58-7 [TIN ORGANIC COMPOUNDS, AS SN] | | 0,2 | Short Term Exposure Limit (STEL): | | AD TLV |
| Dibutyltin dilaurate 77-58-7 [TIN ORGANIC COMPOUNDS, AS SN] | | | Skin designation: | Can be absorbed through the skin. | AD TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | | Skin designation: | Can be absorbed through the skin. | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,2 | Short Term Exposure Limit (STEL): | | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,1 | Time Weighted Average (TWA): | | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS (AS SN)] | | 0,1 | Time Weighted Average (TWA): | | UAE OEL |
| Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS (AS SN)] | | 0,2 | Short Term Exposure Limit (STEL): | | UAE OEL |
| Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS (AS SN)] | | | Skin designation: | Can be absorbed through the skin. | UAE OEL |

Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No.: 574627 V004.0

Page 6 of 19

Occupational Exposure Limits

Valid for
Bahrain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | 0,2 | | Short Term Exposure Limit (STEL): | | BH TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | | Skin designation: | Can be absorbed through the skin. | BH TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,1 | Time Weighted Average (TWA): | | BH TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | | Skin designation: | Can be absorbed through the skin. | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,2 | Short Term Exposure Limit (STEL): | | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,1 | Time Weighted Average (TWA): | | GCC TLV |

Occupational Exposure Limits

Valid for
Egypt

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN ORGANIC COMPOUNDS (AS SN)] | | 0,1 | Time Weighted Average (TWA): | | EG OEL |

Occupational Exposure Limits

Valid for
Jordan

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN (ITS COMPOUNDS)] | | 0,1 | Time Weighted Average (TWA): | | JO TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ITS COMPOUNDS)] | | | Skin designation: | Can be absorbed through the skin. | JO TLV |

Occupational Exposure Limits

Valid for
Kuwait

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | | Skin designation: | Can be absorbed through the skin. | GCC TLV |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS AS SN)] | | 0,2 | Short Term Exposure Limit (STEL): | | GCC TLV |
| Dibutyltin dilaurate 77-58-7 | | 0,1 | Time Weighted Average (TWA): | | GCC TLV |

Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No.: 574627 V004.0

Page 7 of 19

| | | | | | |
|--|--|-----|--|--|--------|
| [TIN (ORGANIC COMPOUNDS AS SN)] | | | | | |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS)] | | 0,1 | Time Weighted Average (TWA): | | KW OEL |
| Dibutyltin dilaurate 77-58-7 [TIN (ORGANIC COMPOUNDS)] | | 25 | Harmful Concentration for risk to health and life: | | KW OEL |

Occupational Exposure Limits

Valid for
Israel

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS, AS SN] | | 0,2 | Short-term exposure limit (STEL): | | IL OEL |
| Dibutyltin dilaurate 77-58-7 [TIN, ORGANIC COMPOUNDS, AS SN] | | | Skin designation: | Danger of cutaneous absorption | IL OEL |
| Dibutyltin dilaurate 77-58-7 [Tin, organic compounds, as Sn] | | 0,1 | Time Weighted Average (TWA): | | IL OEL |

Occupational Exposure Limits

Valid for
Kenya

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-------------------------------------|--|-----------------|
| Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)] | | 0,2 | Short-term OEL-RL: | | KE OEL-RL |
| Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)] | | 0,1 | Time-weighted average (TWA) OEL-RL: | | KE OEL-RL |
| Dibutyltin dilaurate 77-58-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)] | | | Skin designation: | Can be absorbed through the skin. | KE OEL-RL |

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.4 mm

Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------------------|
| Appearance | liquid liquid light yellow |
| Odor | neutral |
| Odour threshold | No data available / Not applicable |
| pH | Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Vapour pressure | Not applicable |
| Density (20 °C (68 °F)) | 1,16 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Viscosity (; 25 °C (77 °F)) | 450 - 500 mPa.s |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Solubility (qualitative) | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Evaporation rate | No data available / Not applicable |
| Vapor density | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

Acute oral toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|--|----------------------|-------------------------|------------------|---------|---|
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | LD50 | > 5.000 mg/kg | oral | | rat | not specified |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | LD50 | 1.150 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| 2-Dimethylaminoethanol 108-01-0 | LD50 | 1.182,7 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Cyclohexyldimethylamine 98-94-2 | LD50 | 272 mg/kg | oral | | rat | not specified |
| dibutyltin dilaurate 77-58-7 | Acute toxicity estimate (ATE) | 500 mg/kg | oral | | | Expert judgement |
| dibutyltin dilaurate 77-58-7 | LD50 | 500 - 2.000 mg/kg | | | rat | not specified |
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 4.800 mg/kg | oral | | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

Acute inhalative toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|--|-------------|-------------------------|------------------|---------|--|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | LC50 | > 7,19 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| 2-Dimethylaminoethanol 108-01-0 | Acute toxicity estimate (ATE) | 6,1 mg/l | vapour | | | Expert judgement |
| 2-Dimethylaminoethanol 108-01-0 | LC50 | 1641 ppm | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Cyclohexyldimethylamine 98-94-2 | LC50 | 4,5 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LC50 | 36 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Acute dermal toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|---------------|---------------|-------------------------|------------------|---------|---|
| Ethane, 1,1-dichloro-1-fluoro- 1717-00-6 | LD50 | > 2.000 mg/kg | dermal | | rabbit | not specified |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | LD50 | > 2.000 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Dimethylaminoethanol 108-01-0 | LD50 | 1.219 mg/kg | dermal | | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Cyclohexyldimethylamine 98-94-2 | LD50 | 380 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| dibutyltin dilaurate 77-58-7 | LD50 | > 2.000 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 2.375 mg/kg | dermal | | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|---------------------|------------------|--|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | slightly irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2-Dimethylaminoethanol 108-01-0 | corrosive | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Cyclohexyldimethylamine 98-94-2 | corrosive | | rabbit | not specified |
| dibutyltin dilaurate 77-58-7 | not corrosive | | Human, EpiSkinTM (SM), Reconstructe d Human Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| dibutyltin dilaurate 77-58-7 | not irritating | | Human, EpiSkinTM (SM), Reconstructe d Human Epidermis (RHE) | other guideline: |
| dibutyltin dilaurate 77-58-7 | not corrosive | | Corrositex Biobarrier Membrane (reconstitute d collagen matrix) | OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion) |
| octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|---------------------|------------------|---------|--|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 2-Dimethylaminoethanol 108-01-0 | highly irritating | | rabbit | not specified |
| Cyclohexyldimethylamine 98-94-2 | corrosive | 8 d | rabbit | not specified |
| dibutyltin dilaurate 77-58-7 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|--|-----------------|------------------------------------|------------|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | not sensitising | Guinea pig maximisation test | guinea pig | Magnusson and Kligman Method |
| 2-Dimethylaminoethanol 108-01-0 | ambiguous | | mouse | not specified |
| Cyclohexyldimethylamine 98-94-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| dibutyltin dilaurate 77-58-7 | Sensitizing | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| octamethylcyclotetrasiloxane 556-67-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|---------|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2-Dimethylaminoethanol 108-01-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | not specified |
| Cyclohexyldimethylamine 98-94-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| dibutyltin dilaurate 77-58-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| | positive | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| dibutyltin dilaurate 77-58-7 | positive | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | inhalation | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| | negative | oral: gavage | | rat | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |

Reproductive toxicity:

| Hazardous substances CAS-No. | Result / Classification | Species | Exposure time | Species | Method |
|--|---|---------------------------------------|------------------|---------|--|
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL P = 300 ppm NOAEL F1 = 300 ppm | two-generation study inhalation | | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

Repeated dose toxicity

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|-------------------------|-------------------------|---|---------|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | NOAEL=800 - 7500 ppm | oral: feed | 90 daysad libitem | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 2-Dimethylaminoethanol 108-01-0 | NOAEL=0,18 | oral: feed | 90 daysdaily | rat | not specified |
| 2-Dimethylaminoethanol 108-01-0 | LOAEL=0,89 | oral: feed | 90 daysdaily | rat | not specified |
| 2-Dimethylaminoethanol 108-01-0 | NOAEL=24 mg/l | inhalation | 13 weeks6 h/d, 5 d/w | rat | not specified |
| octamethylcyclotetrasiloxane 556-67-2 | LOAEL=35 ppm | inhalation | 6 h nose only inhalation5 days/week for 13 weeks | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL=960 mg/kg | dermal | 3 w5 d/w | rabbit | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |

SECTION 12: Ecological information**General ecological information:**

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|--------------|----------------------------|----------------------|----------------|---|--|
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | LC50 | 126 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | EC50 | 31,2 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | EC50 | > 44 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | NOEC | > 44 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | LC50 | 51 mg/l | Fish | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | EC50 | 131 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | EC50 | 82 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | EC10 | 42 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | EC 50 | 784 mg/l | Bacteria | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | NOEC | 32 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| 2-Dimethylaminoethanol 108-01-0 | LC50 | 81 mg/l | Fish | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Dimethylaminoethanol 108-01-0 | EC50 | 98,37 mg/l | Daphnia | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| 2-Dimethylaminoethanol 108-01-0 | EC50 | 68,08 mg/l | Algae | 72 h | Desmodesmus subspicatus | other guideline: |
| 2-Dimethylaminoethanol 108-01-0 | EC10 EC20 | 24,49 mg/l > 1.000 mg/l | Algae Bacteria | 72 h 30 min | Desmodesmus subspicatus activated sludge, domestic | other guideline: OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Cyclohexyldimethylamine 98-94-2 | LC50 | 22 - 46 mg/l | Fish | 96 h | Leuciscus idus | DIN 38412-15 |
| Cyclohexyldimethylamine 98-94-2 | EC50 | 75 mg/l | Daphnia | 48 h | other aquatic arthropod: | EU Method C.2 (Acute Toxicity for Daphnia) |
| Cyclohexyldimethylamine 98-94-2 | EC50 | > 2 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Cyclohexyldimethylamine 98-94-2 | NOEC | 0,0625 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) not specified |
| Cyclohexyldimethylamine 98-94-2 | EC10 | 137 mg/l | Bacteria | 17 h | | |
| dibutyltin dilaurate 77-58-7 | LC50 | 3,1 mg/l | Fish | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| dibutyltin dilaurate 77-58-7 | EC50 | 0,463 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

| | | | | | | |
|--|------|-----------------------------|-----------------|------|---|---|
| dibutyltin dilaurate 77-58-7 | IC50 | > 3 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) activated sludge of a predominantly domestic sewage | OECD Guideline 201 (Alga, Growth Inhibition Test) OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| dibutyltin dilaurate 77-58-7 | EC50 | > 1.000 mg/l | Bacteria | 3 h | | |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 0,0044 mg/l | Fish | 93 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| | LC50 | Toxicity > Water solubility | Fish | 96 h | Oncorhynchus mykiss | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | Daphnia | 48 h | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | Algae | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| | EC10 | 0,022 mg/l | Algae | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | Bacteria | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 µg/l | chronic Daphnia | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |

12.2. Persistence and degradability

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---|----------------------------|----------------------|---------------|--|
| Ethane, 1,1-dichloro-1-fluoro-1717-00-6 | | | 2 - 3 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | not readily biodegradable. | aerobic | 0 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| 2-Dimethylaminoethanol 108-01-0 | inherently biodegradable | aerobic | > 90 % | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| | readily biodegradable | aerobic | 60,5 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Cyclohexyldimethylamine 98-94-2 | inherently biodegradable | aerobic | 88 % | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| | readily biodegradable | aerobic | 90 - 100 % | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| dibutyltin dilaurate 77-58-7 | not readily biodegradable. | anaerobic | 23 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| octamethylcyclotetrasiloxane 556-67-2 | not readily biodegradable. | aerobic | 3,7 % | OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test)) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------|--------|-------------------------------|---------------|---------|-------------|--------|
|------------------------------|--------|-------------------------------|---------------|---------|-------------|--------|

| | | | | | | |
|--|-------|---------------|------|---------------------|---------|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | | > 0,8 - < 2,8 | 42 d | no data | | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | 2,68 | | | | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 2-Dimethylaminoethanol 108-01-0 | -0,55 | | | | 23 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Cyclohexyldimethylamine 98-94-2 | 2,01 | | | | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| dibutyltin dilaurate 77-58-7 | | 31 - 155 | | Cyprinus carpio | | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| dibutyltin dilaurate 77-58-7 | 4,44 | | | | 20,8 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| octamethylcyclotetrasiloxane 556-67-2 | | 12.400 | 28 d | Pimephales promelas | | EPA OTS 797.1520 (Fish Bioconcentration Test- Rainbow Trout) |
| octamethylcyclotetrasiloxane 556-67-2 | 6,98 | | | | 21,7 °C | other guideline: |

12.5. Results of PBT and vPvB assessment

| Hazardous components CAS-No. | PBT/vPvB |
|--|---|
| Tris(2-chloro-1-methylethyl) phosphate 13674-84-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-Dimethylaminoethanol 108-01-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cyclohexyldimethylamine 98-94-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| dibutyltin dilaurate 77-58-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| octamethylcyclotetrasiloxane 556-67-2 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

SECTION 14: Transport information**14.1. UN number or ID number**

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.2. UN proper shipping name

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.3. Transport hazard class(es)

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.4. Packing group

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.5. Environmental hazards

| | |
|------|----------------|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.6. Special precautions for user

| | |
|------|----------------|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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

No information available:

| | |
|--|---|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Ethane, 1,1-dichloro-1-fluoro- CAS 1717-00-6 |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | dibutyltin dilaurate CAS 77-58-7 |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H361f Suspected of damaging fertility.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.

- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H420 Harms public health and the environment by destroying ozone in the upper atmosphere.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Product is intended for professional use.

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