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|---------------------------------|----------------------|--|------------|-------------|
| 1 Identification | of the substance | I preparation and of the company | | |
| 1.1 Product id | lentifier | | | |
| | | MD-Megabond 3000 | | |
| 1.2 Relevant i | dentified uses of | the substance or mixture and uses advised against | | |
| 1.2.1 Relevant u | lses | | | |
| | | Adhesive | | |
| 1.2.2 Uses advi | sed against | | | |
| | g | None known. | | |
| 1.3 Details of | the supplier of th | ne safety data sheet | | |
| Company | | Marston Domsel GmbH | | |
| | | Bergheimer Str. 15 53909 Zülpich / GERMANY Phone 0 22 52 / 94 15 - 0 Fax 0 22 52 / 17 44 Homepage www.marston-domsel.de E-mail info@marston-domsel.de | | |
| Address e | enquiries to | | | |
| Technical in | nformation | info@marston-domsel.de | | |
| Safety Data | Sheet | sdb@chemiebuero.de | | |
| 1.4 Emergenc | y phone | | | |
| Advisory bo | ody | +49 (0) 89-19240 (24h) (english) | | |
| 2 Hazards ident | tification | | | |
| 2.1 Classifica | tion of the substa | ance or mixture | | |
| 2.1.1 Classifica Hazard pict | - | Regulation (EC) No 1272/2008 [CLP] | | |
| Signal word | d | DANGER | | |

DANGER

Flam. Liq. 2 - H225 Highly flammable liquid and vapour. Acute Tox. 4 - H302 H312 H332 Harmful if swallowed, in contact with skin or if inhaled. Skin Sens. 1 - H317 May cause an allergic skin reaction. Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects. Skin Irrit. 2 - H315 Causes skin irritation. Eye Irrit. 2 - H319 Causes serious eye irritation. STOT SE 3 - H335 May cause respiratory irritation. Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols

| 沙 | |
|----------|----------|
| Highly f | lammable |



R-phrases

R 11: Highly flammable. R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 43: May cause sensitisation by skin contact.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The product is classified and required to be labelled in accordance with EC-Directives

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|------|----------------------------------|--|---|---------------|
| 2.2 | Label elements | | | |
| | Labelling according to Re | gulation 67/548/EEC or 1999/45/EC | | |
| | Hazard symbols | * | × | |
| | | Highly flammable | Harmful | |
| | Contains: | Methyl methacrylate | | |
| | | Reaction product: bisphenol-A-(epi weight ≤ 700) | chlorhydrin) Epoxy resin (number average m | olecular |
| | | Dibenzoyl peroxide | | |
| | R-phrases | R 36/37/38: Irritating to eyes, respi R 43: May cause sensitisation by s | | n the aquatic |
| | S-phrases | advice. S 36/37/39: Wear suitable protectiv S 51: Use only in well-ventilated ar | gnition - No smoking. rinse immediately with plenty of water and s /e clothing, gloves and eye/face protection. | |
| | Special labelling | Contains epoxy-containing compou | inds. Observe manufacturer's instructions. | |
| 2.3 | Other hazards | | | |
| | Physico-chemical hazards | See section 10. | | |
| | Human health dangers | See section 11. | | |
| | Environmental hazards | See section 12. | | |

Environmental hazards Other hazards

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

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3 Composition / Information on ingredients

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3.1 Product-type:

The product in question is a mixture.

| Range [%] | Substance |
|-----------|--|
| 40 -< 60 | Methyl methacrylate |
| | CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6 |
| | GHS/CLP: Flam. Liq. 2 - H225 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 |
| | EEC: F-Xi, R 11-37/38-43 |
| 1 -< 5 | Methacrylic acid |
| | CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5 |
| | GHS/CLP: Acute Tox. 4 - H312 - Acute Tox. 4 - H302 - Skin Corr. 1A - H314 - STOT SE 3 - H335 |
| | EEC: C, R 21/22-35 |
| 1 -< 10 | Methacrylates |
| | EU-INDEX: 607-134-00-4 |
| | GHS/CLP: Eye Irrit. 2 - H319 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 |
| | EEC: Xi, R 36/37/38 |
| 2,5 -< 5 | Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700) |
| | CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8 |
| | GHS/CLP: Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Aquatic Chronic 2 - H411 |
| | EEC: Xi-N, R 36/38-43-51/53 |
| 1 -< 5 | 1-Methyltrimethylene dimethacrylate |
| | CAS: 1189-08-8, EINECS/ELINCS: 214-711-0 |
| | GHS/CLP: |
| | EEC: Xi, R 36/38 |
| 1 -< 5 | Dibenzoyl peroxide |
| | CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0 |
| | GHS/CLP: Org. Perox. B - H241 - Eye Irrit. 2 - H319 - Skin Sens. 1 - H317 |
| | EEC: E-Xi, R 3-7-36-43 |
| 1 -< 5 | Bis(methacryloyloxyethyl)hydrogenphosphat |
| | CAS: 32435-46-4, EINECS/ELINCS: 251-040-2 |
| | GHS/CLP: |
| | EEC: Xi, R 36/37/38 |
| 0,1 -< 1 | N,N-dimethyl-p-toluidine |
| | CAS: 99-97-8, EINECS/ELINCS: 202-805-4, EU-INDEX: 612-056-00-9 |
| | GHS/CLP: Acute Tox. 3 - H301 H311 H331 - STOT RE 2 - H373 - Aquatic Chronic 3 - H412 |
| | EEC: T, R 23/24/25-33-52/53 |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For the wording of the listed risk phrases refer to section 16.

4 First aid measures

| 4.1 | Description of first aid measures General information | Remove contaminated soaked clothing immediately and dispose of safely. |
|-----|--|---|
| | Inhalation | Ensure supply of fresh air. |
| | | In the event of symptoms seek for 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 | In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. |
| | Ingestion | Consult a doctor immediately. |
| | | Do not induce vomiting. |
| | | Rinse out mouth and give plenty of water to drink. |
| | | |

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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|-------|---|---|-----------------------|-------------|
| 5 Fir | e-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 Unknown 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 the local regulations. Cool containers at risk with water spray jet. | disposed of in accord | ance within |
| 6 Ac | cidental release measures | | | |
| 6.1 | Personal precautions, protective | equipment and emergency procedures Keep away from all sources of ignition. Ensure adequate ventillation. High risk of slipping due to leakage/spillage of product. Use personal protective clothing. | | |
| 6.2 | Environmental precautions | | | |
| | | Prevent spread over a wide area (e.g. by containment or Do not discharge into the drains/surface waters/groundwa | | |
| 6.3 | Methods and material for contain | ment and cleaning up | | |
| | | Take up mechanically. Take up residues with absorbent material (e.g. sand). Dispose of absorbed material in accordance within the re | gulations. | |
| 6.4 | Reference to other sections | See section 8+13 | | |
| 7.11- | | | | |
| 7 на | Indling and storage | | | |
| 7.1 | Precautions for safe handling | Use only in well-ventilated areas. Vacuuming in situ required. Vapours can form an explosive mixture with air. Keep away from all sources of ignition - Refrain from smo Ignitable mixtures can be formed in the empty container. | oking. | |
| 7.2 | Conditions for safe storage, inclu | uding any incompatibilities Keep only in original container. Do not store together with oxidizing agents. Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating. | | |
| 7.3 | Specific end use(s) | See product use, section 1.2 | | |

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| 8 | Exposure controls / | personal | protection |
|---|---------------------|----------|------------|

8.1 Control parameters

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| Range [%] | Substance |
|-----------|---|
| 40 -< 60 | Methyl methacrylate |
| | CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6 |
| | Long-term exposure: 50 ppm, 208 mg/m ³ |
| | Short-term exposure (15-minute): 100 ppm, 416 mg/m ³ |
| 1 -< 5 | Methacrylic acid |
| | CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5 |
| | Long-term exposure: 20 ppm, 72 mg/m ³ |
| 1 -< 5 | Di-isobutylphthalate |
| | CAS: 84-69-5, EINECS/ELINCS: 201-553-2, EU-INDEX: 607-623-00-2 |
| | Long-term exposure: 5 mg/m ³ |
| 1 -< 20 | Dibenzoyl peroxide |
| | CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0 |
| | Long-term exposure: 5 mg/m ³ |

Ingredients with occupational

| exposure minis to | exposure minus to be monitored (EO) | | |
|---------------------------------------|--|--|--|
| Range [%] Substance / EC LIMIT VALUES | | | |
| 40 -< 60 Methyl methacrylate | | | |
| | CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6 | | |
| | Eight hours: 50 ppm | | |
| | Short-term (15-minute): 100 ppm | | |

8.2 Exposure controls

| • | |
|---|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. |
| Eye protection | Safety glasses. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Butyl rubber, >480 min (EN 374). In splash contact Butyl rubber, >120 min (EN 374). |
| Skin protection | Light protective clothing. |
| Other | Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not inhale vapours. Avoid contact with eyes and skin. |
| | Remove contaminated soaked clothing immediately and dispose of safely. Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. |
| Respiratory protection | Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter AX. |
| Thermal hazards | not applicable |
| Delimitation and monitoring of the environmental exposition | not determined |
| | |

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| viscous |
|----------------|
| liquid |
| not determined |
| characteristic |
| not determined |
| not applicable |
| not applicable |
| not determined |
| 15 |
| not determined |
| not determined |
| not determined |
| no |
| not determined |
| not applicable |
| immiscible |
| not determined |
| |
| |

none

10 Stability and reactivity

10.1 Reactivity

9.2

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong alkalies and oxidizing agents. Reactions with strong acids.

10.4 Conditions to avoid

See section 7

10.5 Incompatible materials

See section 10.3.

10.6 Hazardous decomposition products

Flammable gases/vapours.

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11 Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

| Range [%] | je [%] Substance | |
|-----------|---|--|
| 2,5 -< 5 | Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068- 38-6 | |
| | LD50, oral, Rat: 13600 mg/kg. | |
| 1 -< 5 | Dibenzoyl peroxide, CAS: 94-36-0 | |
| | LD50, oral, Rat: 7710 mg/kg (HSDB). | |
| | LC50, inhalative, Rat: > 24,3 mg/l 4 h. | |
| 0,1 -< 1 | N,N-dimethyl-p-toluidine, CAS: 99-97-8 | |
| | LC50, inhalative, Rat: 1,4 mg/l/4h (Lit.). | |
| | LD50, oral, Rat: 1650 mg/kg (Lit.). | |
| 1 -< 5 | Methacrylic acid, CAS: 79-41-4 | |
| | LD50, oral, Rat: 1060 mg/kg. | |
| | LC50, inhalative, Rat: 7,1 mg/l 4h. | |
| | LD50, dermal, Rabbit: 500 - 1000 mg/kg. | |
| 40 -< 60 | Methyl methacrylate, CAS: 80-62-6 | |
| | LD50, oral, Rat: 7872 mg/kg. | |
| | LD50, dermal, Rabbit: > 5000 mg/kg. | |
| | LC50, inhalative, Rat: 78000 mg/m ³ 4h. | |

| Serious eye damage/irritationnot determinedSkin corrosion/irritationnot determinedRespiratory or skin sensitisationnot determinedSpecific target organ toxicity — single exposurenot determinedSpecific target organ toxicity — repeated exposurenot determinedMutagenicitynot determinedReproduction toxicity — to carcinogenicitynot determinedGeneral remarksThe product was classified on the basis of the calculation procedure of the preparation drirective. Toxicological data of complete product are not available. | | |
|--|-----------------------------------|----------------|
| Respiratory or skin sensitisationnot determinedSpecific target organ toxicity — single exposurenot determinedSpecific target organ toxicity — repeated exposurenot determinedMutagenicitynot determinedMutagenicitynot determinedReproduction toxicity — Carcinogenicitynot determinedGeneral remarksThe product was classified on the basis of the calculation procedure of the preparation directive. | Serious eye damage/irritation | not determined |
| Specific target organ toxicity — single exposure not determined Specific target organ toxicity — repeated exposure not determined Mutagenicity not determined Mutagenicity not determined Reproduction toxicity not determined Carcinogenicity not determined General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | Skin corrosion/irritation | not determined |
| single exposure not determined Specific target organ toxicity — repeated exposure not determined Mutagenicity not determined Reproduction toxicity not determined Carcinogenicity not determined General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | Respiratory or skin sensitisation | not determined |
| repeated exposure not determined Mutagenicity not determined Reproduction toxicity not determined Carcinogenicity not determined General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | | not determined |
| Reproduction toxicity not determined Carcinogenicity not determined General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | | not determined |
| Carcinogenicity not determined General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | Mutagenicity | not determined |
| General remarks The product was classified on the basis of the calculation procedure of the preparation directive. | Reproduction toxicity | not determined |
| The product was classified on the basis of the calculation procedure of the preparation directive. | Carcinogenicity | not determined |
| directive. | General remarks | |
| | | directive. |

12 Ecological information

12.1 Toxicity

| - | | |
|---|-----------|---|
| | Range [%] | Substance |
| | 1 -< 5 | Dibenzoyl peroxide, CAS: 94-36-0 |
| | | LC50, (96h), fish: 2 mg/l. |
| | | EC50, (48h), Daphnia magna: 2,91 mg/l. |
| | 1 -< 5 | Methacrylic acid, CAS: 79-41-4 |
| | | EC50, (96h), Algae: 0,59 mg/l. |
| | | EC50, (24h), Daphnia magna: > 100 - 180 mg/l. |
| | 40 -< 60 | Methyl methacrylate, CAS: 80-62-6 |
| | | LC50, (96h), fish: 191 mg/l. |
| | | EC50, (48h), Daphnia magna: 69 mg/l. |
| | | |

12.2 Persistence and degradability

| Behaviour in environment compartments | not determined |
|--|----------------|
| Behaviour in sewage plant | not determined |
| Biological degradability | not determined |

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12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

Ecological data of complete product are not available.

The product contains organically bounded halogen.

It can contribute to the adsorbable organic halogen value in the effluent from sewage treatment plants.

The product was classified on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment or into the drainage.

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

| 14 Transport information | |
|--------------------------|--|
| Waste no. (recommended) | 150110* |
| | Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product. |
| Contaminated packaging | |
| Waste no. (recommended) | 080409* |
| | Dispose of as hazardous waste. Disposal in an incineration plant in accordance with the regulations of the local authorities. |

14.1 UN number

See section 14.2 in accordance with UN shipping name

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|------|---|--|------------|-------------|
| 14.2 | UN proper shipping name | | | |
| | Transport by land according to ADR/RID | UN 1133 ADHESIVES 3 II | | |
| | - Classification Code | F1 | | |
| | - Label | • | | |
| | - ADR LQ | 51 | | |
| | - ADR 1.1.3.6 (8.6) | Transport category (tunnel restriction code) 2 (D/E) | | |
| | Marine transport in accordance with IMDG | UN 1133 Adhesives 3 II | | |
| | - EMS | F-E, S-D | | |
| | - Label | | | |
| | - IMDG LQ | 51 | | |
| | Air transport in accordance with IATA | UN 1133 Adhesives 3 II | | |
| | - Label | • | | |
| 14.3 | Transport hazard class(es) | | | |
| | See section 14.2 in accordance with UN | shipping name | | |
| 14.4 | Packing group | | | |
| | See section 14.2 in accordance with UN | shipping name | | |
| 14.5 | Environmental hazards | | | |
| | See section 14.2 in accordance with UN | shipping name | | |

14.6 Special precautions for user

Relevant information under section 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No informations available.

| 15 R | 15 Regulatory information | | |
|------|--|---|--|
| 15.1 | 5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | | |
| | EEC-REGULATIONS | 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC | |
| | TRANSPORT-REGULATIONS | DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012). | |
| | NATIONAL REGULATIONS (GB): | EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4 | |
| 15.2 | Chemical safety assessment | | |
| | | Chemical safety assessments for substances in this mixture were not carried out. | |

| I set for a set of the set | |
|--|---|
| her informations | |
| R-phrases (section 03) | R 11: Highly flammable. R 37/38: Irritating to respiratory system and skin. R 43: May cause sensitisation by skin contact. R 21/22: Harmful in contact with skin and if swallowed. R 35: Causes severe burns. R 36/37/38: Irritating to eyes, respiratory system and skin. R 36/37/38: Irritating to eyes and skin. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R 33: Danger of cumulative effects. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| | R 36: Irritating to eyes. |
| | R 7: May cause fire. R 3: Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| Hazard statements (section 03) | H225 Highly flammable liquid and vapour. H335 May cause respiratory irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H312 Harmful in contact with skin. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H301 H311 H331 Toxic if swallowed, in contact with skin or if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. H241 Heating may cause a fire or explosion. |
| Observe employment restrictions for people | yes |
| VOC (1999/13/CE) | not determined |
| Customs Tariff | not determined |
| Abbreviations and acronyms: | ADR = Accord européen relatif au transport international des marchandises Dangereuses p Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses pa voie de navigation intérieure 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 Community EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European Ist 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 Maritime Code for Dangerous Goods IUCLID = International Maritime Code for Dangerous Goods IUCLID = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals TLV®/TWA = Threshold limit value – time-weighted average TLV®/TWA = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds |
| | vPvB = very Persistent and very Bioaccumulative |
| Modified position | none |

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