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Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0 Page 1 / 13

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

1.1 Product identifier

Universal sealant Article number: 109660

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

1.2.1 Relevant uses

Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms none Signal word none

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P102 Keep out of reach of children.
P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangersContains no ingredients with endocrine-disrupting properties.

Environmental hazards The mixture contains the following substances which fulfill the PBT and/or vPvB criteria

according to REACH criteria, Annex XIII: CAS 541-02-6/ CAS 540-97-6/ CAS 556-67-2

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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Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

Page 2 / 13

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1	Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)
	CAS: 540-97-6, EINECS/ELINCS: 208-762-8, Reg-No.: 01-2119517435-42-XXXX
0,1 - < 1	Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)
	CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX
< 0,25	Octamethylcyclotetrasiloxane
	CAS: 556-67-2, EINECS/ELINCS: 209-136-7, EU-INDEX: 014-018-00-1, Reg-No.: 01-2119529238-36-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Repr. 2: H361f - Aquatic Chronic 1: H410, M-Factor (chronic): 10

Comment on component parts For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact Take up product with suitable papertissues before.

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 Seek medical advice immediately.

Do not induce vomiting.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to your doctor.

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 within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

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.

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Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

Page 3 / 13

6.3 Methods and material for containment and cleaning up

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

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Do not use metal containers.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: +5°C - +25°C

7.3 Specific end use(s)

This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0

Page 4 / 13

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)

CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX

Long-term exposure: 10 ppm, TWA - DCC OEL

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
Industrial, inhalative, Acute - systemic effects, 97,3 mg/m³
Industrial, inhalative, Acute - local effects, 24,2 mg/m³
Industrial, inhalative, Long-term - local effects, 24,2 mg/m³
Industrial, inhalative, Long-term - systemic effects, 97,3 mg/m³
general population, inhalative, Acute - systemic effects, 17,3 mg/m³
general population, inhalative, Acute - local effects, 4,3 mg/m³
general population, inhalative, Long-term - systemic effects, 17,3 mg/m³
general population, inhalative, Long-term - local effects, 4,3 mg/m³
general population, oral, Acute - systemic effects, 5 mg/kg bw/d
general population, oral, Long-term - systemic effects, 5 mg/kg bw/d
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
Industrial, inhalative, Long-term - local effects, 1,22 mg/m³
Industrial, inhalative, Acute - local effects, 6,1 mg/m³
general population, inhalative, Long-term - local effects, 0,3 mg/m³
general population, inhalative, Acute - local effects, 1,5 mg/m³
Octamethylcyclotetrasiloxane, CAS: 556-67-2
Industrial, inhalative, Long-term - local effects, 73 mg/m³
Industrial, inhalative, Long-term - systemic effects, 73 mg/m³
general population, inhalative, Long-term - systemic effects, 13 mg/m³
general population, oral, Long-term - systemic effects, 3,7 mg/kg bw/day
general population, inhalative, Long-term - local effects, 13 mg/m³

PNEC

Substance	
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6	
freshwater, 0,0012 mg/l	
seawater, 0,00012 mg/l	
sediment (freshwater), 2,39 mg/kg dw	
sediment (seawater), 0,239 mg/kg dw	
sewage treatment plants (STP), > 10 mg/l	
soil, 3,34 mg/kg dw	
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6	
sediment (freshwater), 13 mg/kg sediment dw	
sediment (seawater), 1,3 mg/kg sediment dw	
oral (food), 66,7 mg/kg	
Octamethylcyclotetrasiloxane, CAS: 556-67-2	
freshwater, 1,5 μg/L	
seawater, 0,15 µg/L	
sewage treatment plants (STP), 10 mg/L	
sediment (freshwater), 3 mg/kg sediment dw	

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Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

Page 5 / 13

sediment (seawater), 0,3 mg/kg sediment dw

soil, 0,54 mg/kg soil dw

oral (food), 41 mg/kg

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection safety glasses (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

> 0,4 mm: Viton, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other 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 protectionNo dangerous reactions known if used as directed.

Thermal hazards not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateliquidFormpastyColorblackOdoracetic

Odour threshold No information available.

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C] > 93
Flammability no

Lower explosion limit not applicable
Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/cm³] 1,01 - 1,06 (20 °C / 68,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

No information available.

Kinematic viscosity > 20,5 mm²/S (40°C)
Relative vapour density No information available.

Melting point [°C] No information available.

Auto-ignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

Particle characteristics not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

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Page 6 / 13

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents. Reactions with reducing agents.

10.4 Conditions to avoid

Strong heating.
Sensitive to moisture.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Acetic acid.

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Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0 Page 7 / 13

SECTION 11: Toxicological information

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

Product

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

LD50, oral, Rat, > 5000 mg/kg bw

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

LD50, oral, Rat, > 2000 mg/kg (OECD 423)

Octamethylcyclotetrasiloxane, CAS: 556-67-2

LD50, oral, Rat, 4800 mg/kg

Acute dermal toxicity

Product

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

LD50, dermal, Rabbit, > 2000 mg/kg bw

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

LD50, dermal, Rat, > 2000 mg/kg (OECD 402)

Octamethylcyclotetrasiloxane, CAS: 556-67-2

LD50, dermal, Rat, > 2400 mg/kg

Acute inhalational toxicity

Product

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

LD50, inhalativ (mist), Rat, 8,67 mg/l/4h

Octamethylcyclotetrasiloxane, CAS: 556-67-2

LC50, inhalative, Rat, 36 mg/L 4h

Serious eye damage/irritation

Slight irritant effect.

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

Eye, non-irritating

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

Eye, non-irritating

Octamethylcyclotetrasiloxane, CAS: 556-67-2

Eye, non-irritating

Skin corrosion/irritation

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

dermal, non-irritating

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

dermal, non-irritating

Octamethylcyclotetrasiloxane, CAS: 556-67-2

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0

Page 8 / 13

dermal, non-irritating

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

dermal, non-sensitizing

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

dermal, non-sensitizing

Octamethylcyclotetrasiloxane, CAS: 556-67-2

dermal, non-sensitizing

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

Substance

Octamethylcyclotetrasiloxane, CAS: 556-67-2

inhalative, irritant

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

NOAEL, oral, Rat, 1000 mg/kg bw/day

NOAEL, dermal, Rat, 1600 mg/kg bw/day

NOAEC, inhalative, Rat, 2420 mg/m³

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

NOAEL, oral, Rat, 1000 mg/kg bw/day

NOAEC, inhalative, Rat, 546 mg/kg bw/day

LOAEC, inhalative, Rat, 182 mg/kg bw/day

Octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEL, dermal, Rabbit, 960 mg/kg bw/day (subacute), no adverse effect observed

NOAEC, inhalative, Rat, 1820 mg/m³ (chronic), no adverse effect observed

Mutagenicity

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

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

in vitro, negativ

in vivo, negativ

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

in vitro, negativ

in vivo, negativ

Octamethylcyclotetrasiloxane, CAS: 556-67-2

in vivo, negativ

Reproduction toxicity

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

- Fertility

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

NOAEC, inhalative, Rat, 2420 mg/m³

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

NOAEL, oral, Rat, 1000 mg/kg bw/d

Octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 3640 mg/m³ (subchronic), adverse effect observed

- Development

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Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

Page 9 / 13

Substance

Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6

NOAEC, inhalative, Rat, 2427 mg/m³

Octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 3640 mg/m³ (subchronic), adverse effect observed

Carcinogenicity

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

Substance

Octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 8492 mg/m³ (chronic)

Aspiration hazard

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

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Product

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

Substance

Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6

EC50, (72h), Pseudokirchneriella subcapitata, > 0,002 mg/l

EC50, (3h), Bacteria, 100 mg/l

NOEC, (28d), 130 mg/kg sediment dw

NOEC, (28d), 1 g/kg soil dw

NOEC, (21d), Daphnia magna, >= 0,0046 mg/l

NOEC, (72h), Pseudokirchneriella subcapitata, >= 0,002 mg/l

Octamethylcyclotetrasiloxane, CAS: 556-67-2

EC50, (48h), Invertebrates, 0,015 mg/L

EC50, (4d), Algae, 0,022 mg/L

NOEC, (48h), Invertebrates, 0,015 mg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

12.4 Mobility in soil

No information available.

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0

Page 10 / 13

12.5 Results of PBT and vPvB assessment

The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII:

CAS 541-02-6

CAS 540-97-6

CAS 556-67-2

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

The product is insoluble in water.

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 disposal contractor/authorities if necessary.

Waste no. (recommended)

080410

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Contaminated packing should be disposed of as product waste.

Waste no. (recommended) 150102

150104

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

NO DANGEROUS GOODS

ADR/RID

Inland navigation (ADN) NO DANGEROUS GOODS

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

IMDG

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

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025

Version 6.0. Supersedes version: 5.0 Page 11 / 13

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

IMDG

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

Inland navigation (ADN) no

Marine transport in accordance with 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

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0 Page 12 / 13

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1%

CAS 541-02-6 - Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance) CAS 540-97-6 - Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)

CAS 556-67-2 - Octamethylcyclotetrasiloxane

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances \geq 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 40, 70, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions. 3, 70

TRANSPORT-REGULATIONS ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

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

REACH; GB CLP.

- Observe employment restrictions

for people

- VOC (2010/75/CE) 36 g/l

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H361f Suspected of damaging fertility. H226 Flammable liquid and vapour.

Ferdinand Bilstein GmbH + Co. KG

Date printed 14.01.2025, Revision 14.01.2025



Version 6.0. Supersedes version: 5.0 Page 13 / 13

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

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

Customs Tariff not determined

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method) Classification procedure

Modified position 11.2, 12.6, 15.1, 16.3