



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

1.1 Product identifier

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

1.2.1 Relevant uses

Hardener

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

VIP Coatings International Gmbh & Co. KG
Frauenstrasse 31
82216 Maisach / GERMANY
Phone +49 (0)8141 35549 0
Fax +49(0)8141 35549 99
Homepage www.vipcoatings-intl.com
E-mail info@vipcoatings-intl.com

Address enquiries to

Technical information

info@vipcoatings-intl.com

Safety Data Sheet

sdb@chemiebuero.de

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

Carc. 2: H351 Suspected of causing cancer.
Acute Tox. 4: H332 Harmful if inhaled.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Irrit. 2: H315 Causes skin irritation.
STOT SE 3: H335 May cause respiratory irritation.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1: H317 May cause an allergic skin reaction.



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2.2 Label elements

	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).	
Hazard pictograms		
Signal word	DANGER	
Contains:	Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1-methylenebisocyanatobenzene 4,4'-Methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate 4,4'-Methylenediphenyl diisocyanate, oligomers	
Hazard statements	H351 Suspected of causing cancer. H332 Harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.	
Precautionary statements	P260 Do not breathe vapours. P280 Wear protective gloves / eye protection / face protection. P284 Wear respiratory protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor. P501 Dispose of contents/container in accordance with local/national regulation.	
Special labelling	EUH204 Contains isocyanates. May produce an allergic reaction.	

2.3 Other hazards

Human health dangers	Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
50 - 100	Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1-methylenebisisocyanatobenzene CAS: 39420-98-9, EINECS/ELINCS: Polymer GHS/CLP: Acute Tox. 4: H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 - Carc. 2: H351 - STOT SE 3: H335 - STOT RE 2: H373
10 - 30	4,4'-Methylenediphenyl diisocyanate CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317
2 - 7	4,4'-Methylenediphenyl diisocyanate, oligomers CAS: 25686-28-6, EINECS/ELINCS: 500-040-3, Reg-No.: 01-2119457013-49-XXXX GHS/CLP: Acute Tox. 4: H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 - Carc. 2: H351 - STOT SE 3: H335 - STOT RE 2: H373
2 - 7	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate EINECS/ELINCS: 905-806-4, Reg-No.: 01-2119457015-45-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove the victim into fresh air and keep him calm.
In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
It may be better to use polyethyleneglycol- or corn oil-based cleaning agents.
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

Do not induce vomiting.
Rinse mouth.
In the event of symptoms seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Irritant effects
Redness
Cough

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.
Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam.
Carbon dioxide.
Dry powder.
Sand.

Extinguishing media that must not be used Water.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NO_x).
Hydrogen cyanide (HCN).
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
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.
Wear suitable protective equipment. For personal protection see SECTION 8.
Use breathing apparatus if exposed to vapours.
High risk of slipping due to leakage/spillage of product.
Remove persons to safety.
Restrict access to area until completion of clean-up.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
For the absorbing process do not use organic materials (e.g. sawdust).
Clean contaminated areas afterwards thoroughly.
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.
Vacuuming in situ required.
Avoid contact with eyes and skin. Use personal protective equipment.
Special instructions for safe handling must be obtained before use.
Avoid spilling in enclosed areas.
Open and handle container with care.
Always close container tightly after removal of product.

Do not eat, drink or smoke when using this product.
Keep away from food and drink.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Keep away from water.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from atmospheric moisture and water.
Keep in a cool place. Store in a dry place.
Protect from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
4,4'-Methylenediphenyl diisocyanate, oligomers, CAS: 25686-28-6
Industrial, dermal, Acute - systemic effects: 50 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
general population, dermal, Acute - systemic effects: 25 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 0,025 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 0,025 mg/m ³ .
general population, oral, Acute - systemic effects: 20 mg/kg bw/day.
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
Industrial, dermal, Acute - systemic effects: 50 mg/kg.
Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
Industrial, dermal, Acute - systemic effects: 50 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
general population, dermal, Acute - local effects: 17,2 mg/cm ² .
general population, inhalative, Acute - systemic effects: 0,05 mg/m ³ .
general population, inhalative, Acute - local effects: 0,05 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 0,025 mg/m ³ .
general population, inhalative, Long-term - local effects: 0,025 mg/m ³ .
general population, oral, Acute - systemic effects: 20 mg/kg bw/d.
general population, dermal, Acute - systemic effects: 25 mg/kg bW/d.

PNEC

Substance
4,4'-Methylenediphenyl diisocyanate, oligomers, CAS: 25686-28-6
soil, 1 mg/kg.
sewage treatment plants (STP), 1 mg/l.
seawater, 0,1 mg/l.
freshwater, 1 mg/l.
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
sewage treatment plants (STP), > 1 mg/l.

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soil, > 1 mg/kg.
seawater, > 0,1 mg/l.
freshwater, > 1 mg/l.
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
sewage treatment plants (STP), 1 mg/l.
soil, 1 mg/kg.
seawater, 0,1 mg/l.
freshwater, 1 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Use suitable exhaust ventilation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	safety glasses (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). > 0,11 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,11 mm, Neoprene, >480 min (EN 374-1/-2/-3). > 0,11 mm, Viton, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
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

Form	liquid
Color	yellowish
Odor	musty
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 60
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,09 - 1,13 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble reacts with water
Partition coefficient [n-octanol/water]	No information available.
Viscosity	600 - 1000 mPas (25°C)
Relative vapour density determined in air	8,5 (MDI)
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under recommended storage conditions.
Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).
Reactions with acids.
Reactions with alcohols.
Reactions with amines.
Reactions with strong oxidizing agents.
Reactions with water, with formation of carbon dioxide. In closed containers rise of pressure.
Risk of polymerisation.



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10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.

Sensitive to moisture.

Water

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalativ (mist), > 1 - < 5 mg/l/4h.
Substance
Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1-methylenebisocyanatobenzene, CAS: 39420-98-9
LD50, oral, Rat: > 10000 mg/kg.
LD50, dermal, Rabbit: > 9400 mg/kg.
LD50, intraperitoneal, Rabbit: 100 mg/kg.
LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
NOAEL, Rat: 12 mg/m ³ (OECD 414).
4,4'-Methylenediphenyl diisocyanate, oligomers, CAS: 25686-28-6
NOEC: 0,2 mg/m ³ (OECD 453).
NOEC: < 4 mg/m ³ /90d (OECD 413).
LD50, dermal, Rabbit: > 9400 mg/kg.
LD50, oral, Rat (female): > 5000 mg/kg.
LC50, inhalative, Rat: 0,49 mg/l/4h.
NOAEL, Rat: 12 mg/m ³ (OECD 414).
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, Conversion value: 1,5 mg/l/4h (Dust/mist).
LD50, oral, Rat: > 2000 mg/kg.
LD50, dermal, Rabbit: > 9400 mg/kg (OECD 402).
LC50, inhalative, Rat: 0,368 mg/l/4h (OECD 403).
LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
LC50, inhalative, Rat: > 2,24 mg/l/1h (OECD 403).
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
LD50, dermal, Rabbit: > 9400 mg/kg.
LD50, oral, Rat: > 10000 mg/kg.
LC50, inhalativ (mist), Rat: 0,49 mg/l/4h.
NOAEL, Rat: 12 mg/m ³ (OECD 414).

Serious eye damage/irritation	Irritant Calculation method
Skin corrosion/irritation	Irritant Calculation method
Respiratory or skin sensitisation	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Calculation method
Specific target organ toxicity — single exposure	May cause respiratory irritation. Calculation method
Specific target organ toxicity — repeated exposure	May cause damage to organs through prolonged or repeated exposure through inhalation. Calculation method
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Suspected of causing cancer. Calculation method

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.
General remarks

Toxicological data of complete product are not available.
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
4,4'-Methylenediphenyl diisocyanate, oligomers, CAS: 25686-28-6
LC50, (96h), fish: > 1000 mg/l (OECD 203).
EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
EC50, Bacteria: > 100 mg/l/3h (OECD 209).
EC50, (72h), Algae: > 1640 mg/l (OECD 201).
NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 211).
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203).
ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201).
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
LC50, (96h), fish: > 1000 mg/l (OECD 203).
EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202).
EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 211).

12.2 Persistence and degradability

Behaviour in environment compartments No information available.
Behaviour in sewage plant No information available.
Biological degradability 0%, 28d (CAS 101-68-8)
 0%, 28d (CAS 25686-28-6)
 0%, 28d (EC-Nr: 905-806-4)

12.3 Bioaccumulative potential

log Pow: 4,51 (CAS 101-68-8)
 log Pow: 8,56 (CAS 25686-28-6)
 log Pow: 4,51 (EC-Nr: 905-806-4)
 BCF: 200 (CAS 25686-28-6)
 BCF: 200 (EC-Nr: 905-806-4)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
 Do not discharge product unmonitored into the environment or into the drainage.

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

Dispose of as hazardous waste.
 Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

080501*
 160305*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
 Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

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

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

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for young people.
 Observe employment restrictions for mothers-to-be and nursing mothers.

- **VOC (2010/75/CE)** No information available.

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 03)

H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List 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 Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@/TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)



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Modified position

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