

TEROSON PU 92 WH

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

Page 1 of 28

SDS No.: 180161

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

1.1. Product identifier

TEROSON PU 92 WH

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

Intended use:

1-Component sealant

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Respiratory sensitizer Category 1

 $H334\quad May\ cause\ allergy\ or\ asthma\ symptoms\ or\ breathing\ difficulties\ if\ inhaled.$

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Specific target organ toxicity - repeated exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with

1,1'-methylenebis[4-isocyanatobenzene]

Diphenylmethane diisocyanate, isomers and homologues

Signal word: Danger

Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Supplemental information Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

As from 24 August 2023 adequate training is required before industrial or professional

use.

Further information: https://www.feica.eu/PUinfo

Precautionary statement: P260 Do not breathe vapours.

Prevention P280 Wear protective gloves/eye protection.

Precautionary statement:

Response

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration >= 0.1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration \geq the concentration limit that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

| Hazardous components CAS-No. EC Number | Concentration | Classification | Specific Conc. Limits, M- factors and ATEs | Add. Information |
|--|---------------|---|---|---------------------|
| REACH-Reg No. Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'-methylenebis[4- isocyanatobenzene] 59675-67-1 | 20- 40 % | Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Resp. Sens. 1, H334 STOT SE 3, H335 STOT RE 2, H373 | oral:ATE = > 5.000 mg/kg inhalation:ATE = 1,5 mg/l;dust/mist | |
| Xylene - mixture of isomeres 1330-20-7 215-535-7 01-2119488216-32 | 1- < 5 % | Asp. Tox. 1, H304 Acute Tox. 4, Inhalation, H332 Acute Tox. 4, Dermal, H312 Skin Irrit. 2, H315 Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412 | | EU OEL |
| ethylbenzene 100-41-4 202-849-4 01-2119489370-35 | 1- < 5 % | Flam. Liq. 2, H225 Acute Tox. 4, Inhalation, H332 Asp. Tox. 1, H304 STOT RE 2, H373 Aquatic Chronic 3, H412 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336 | | EU OEL |
| Titanium dioxide 13463-67-7 236-675-5 01-2119489379-17 | 1-< 3 % | Carc. 2, Inhalation, H351 | | |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 918-167-1 01-2119472146-39 | 1-< 3 % | Asp. Tox. 1, H304 Flam. Liq. 3, H226 | dermal:ATE = 2.201 mg/kg | |
| methylenediphenyl diisocyanate 26447-40-5 247-714-0 01-2119457015-45 | 0,1-< 1 % | Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 2, Inhalation, H373 STOT SE 3, H335 Resp. Sens. 1, H334 Skin Sens. 1, H317 | STOT SE 3; H335; C >= 5 % Resp. Sens. 1; H334; C >= 0,1 % Skin Irrit. 2; H315; C >= 5 % Eye Irrit. 2; H319; C >= 5 % | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 202-966-0 01-2119457014-47 | 0,1-< 1 % | Carc. 2, H351 Acute Tox. 4, Inhalation, 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 | Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 % Resp. Sens. 1; H334; C >= 0,1 % STOT SE 3; H335; C >= 5 % | |
| MDI homopolymer 25686-28-6 500-040-3 500-040-3 01-2119457013-49 | 0,1-< 1 % | Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, Inhalation, H373 | Resp. Sens. 1; H334; C >= 0,1 % Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 % STOT SE 3; H335; C >= 5 % | |

Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Delayed effects possible after inhalation.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

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:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove mechanically.

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

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.

Ensure good ventilation/extraction.

Store in a cool, dry place.

Keep away from heat and direct sunlight.

Keep container tightly sealed and store in a frost free place.

7.3. Specific end use(s)

1-Component sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list | |
|--|-----|-------------------|--------------------------------------|--|-----------------|--|
| Polyvinyl chloride 9002-86-2 [Polyvinyl chloride, respirable dust] | | 4 | Time Weighted Average (TWA): | | EH40 WEL | |
| Polyvinyl chloride 9002-86-2 Polyvinyl chloride, inhalable dust] | | 10 | Time Weighted Average (TWA): | | EH40 WEL | |
| | | 10 | TD: 337 1 1 1 A | <u> </u> | EH40 WEI | |
| Limestone 1317-65-3 CALCIUM CARBONATE, INHALABLE | | 10 | Time Weighted Average (TWA): | | EH40 WEL | |
| DUST] Limestone 1317-65-3 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL | |
| Limestone 1317-65-3 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL | |
| Limestone 1317-65-3 LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL | |
| Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED [SOMERS] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL | |
| Kylene 1330-20-7 XYLENE, O-, M-, P- OR MIXED SOMERS] | 50 | 220 | Time Weighted Average (TWA): | | EH40 WEL | |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE] | 50 | 221 | Time Weighted Average (TWA): | Indicative | ECTLV | |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE] | 100 | 442 | Short Term Exposure Limit (STEL): | Indicative | ECTLV | |
| Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED [SOMERS] | 100 | 441 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL | |
| Di-"isononyl" phthalate 28553-12-0 Diisononyl phthalate] | | 5 | Time Weighted Average (TWA): | | EH40 WEL | |
| Ethylbenzene [00-41-4 ETHYLBENZENE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL | |
| Ethylbenzene 100-41-4 ETHYLBENZENE] | 100 | 441 | Time Weighted Average (TWA): | | EH40 WEL | |
| Ethylbenzene 100-41-4 ETHYLBENZENE] | 100 | 442 | Time Weighted Average (TWA): | Indicative | ECTLV | |
| Ethylbenzene 100-41-4 ETHYLBENZENE] | 200 | 884 | Short Term Exposure Limit (STEL): | Indicative | ECTLV | |
| Ethylbenzene [00-41-4 ETHYLBENZENE] | 125 | 552 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL | |
| Titanium dioxide 13463-67-7 TITANIUM DIOXIDE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL | |
| Fitanium dioxide | | 10 | Time Weighted Average | | EH40 WEL | |

| 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE] | | (TWA): | | |
|---|------|--------------------------------------|------------|----------|
| Methylenediphenyl diisocyanate 26447-40-5 [ISOCYANATES, ALL (AS -NCO)] | 0,02 | Time Weighted Average (TWA): | | EH40 WEL |
| Methylenediphenyl diisocyanate 26447-40-5 [ISOCYANATES, ALL (AS -NCO)] | 0,07 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS -NCO)] | 0,02 | Time Weighted Average (TWA): | | EH40 WEL |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS -NCO)] | 0,07 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL (AS -NCO)] | 0,02 | Time Weighted Average (TWA): | | EH40 WEL |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL (AS -NCO)] | 0,07 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|--------------------------------------|--|-----------------|
| Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE (PVC)] | | 1 | Time Weighted Average (TWA): | | IR_OEL |
| Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE (PVC)] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS] | 50 | 221 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Xylene 1330-20-7 XYLENE, MIXED ISOMERS, PURE] | 50 | 221 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE] | 100 | 442 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Xylene 1330-20-7 XYLENE, MIXED ISOMERS] | 100 | 442 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |
| Di-"isononyl" phthalate 28553-12-0 [Diisononyl phthalate] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Ethylbenzene [00-41-4 ETHYLBENZENE] | 100 | 442 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Ethylbenzene 100-41-4 ETHYLBENZENE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Ethylbenzene (00-41-4 ETHYLBENZENE) | 100 | 442 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethylbenzene 100-41-4 ETHYLBENZENE] | 200 | 884 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Ethylbenzene 100-41-4 | 200 | 884 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |

| [ETHYLBENZENE] | | | | | |
|--|-------|------|------------------------------|------------|---------|
| Titanium dioxide | | 10 | Time Weighted Average | | IR_OEL |
| 13463-67-7 | | | (TWA): | | |
| [TITANIUM DIOXIDE] | | | | | |
| Titanium dioxide | | 4 | Time Weighted Average | | IR_OEL |
| 13463-67-7 | | | (TWA): | | _ |
| [TITANIUM DIOXIDE] | | | | | |
| Methylenediphenyl diisocyanate | | 0.07 | Short Term Exposure | 15 minutes | IR OEL |
| 26447-40-5 | | | Limit (STEL): | | _ |
| [ISOCYANATES, ALL, EXCEPT | | | | | |
| METHYL ISOCYANATE (CAS NO. 624- | | | | | |
| 83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | | | | | |
| Methylenediphenyl diisocyanate | | 0,02 | Time Weighted Average | | IR_OEL |
| 26447-40-5 | | | (TWA): | | |
| [ISOCYANATES, ALL, EXCEPT | | | | | |
| METHYL ISOCYANATE (CAS NO. 624- | | | | | |
| 83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | 0.005 | | TT' XX ' 1 4 1 A | 1 | ID OF |
| 4,4'-Methylenediphenyl diisocyanate | 0,005 | | Time Weighted Average (TWA): | | IR_OEL |
| 101-68-8 [4,4'-METHYLENE-DIPHENYL | | | (IWA): | | |
| DIISOCYANATE (AS -NCO)] | | | | | |
| 4,4'-Methylenediphenyl diisocyanate | | 0.02 | Time Weighted Average | | IR_OEL |
| 101-68-8 | | 0,02 | (TWA): | | IK_OLL |
| [ISOCYANATES, ALL, EXCEPT | | | (1 ,,,11). | | |
| METHYL ISOCYANATE (CAS NO. 624- | | | | | |
| 83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | | | | | |
| 4,4'-Methylenediphenyl diisocyanate | | 0,07 | Short Term Exposure | 15 minutes | IR_OEL |
| 101-68-8 | | | Limit (STEL): | | |
| [ISOCYANATES, ALL, EXCEPT | | | | | |
| METHYL ISOCYANATE (CAS NO. 624- | | | | | |
| 83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | | | | | |
| 4,4'-Methylenediphenyl diisocyanate, | | 0,02 | Time Weighted Average | | IR_OEL |
| homopolymer | | | (TWA): | | |
| 25686-28-6 | | | | | |
| [ISOCYANATES, ALL, EXCEPT | | | | | |
| METHYL ISOCYANATE (CAS NO. 624-83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | | | | | |
| 4,4'-Methylenediphenyl diisocyanate, | | 0.07 | Short Term Exposure | 15 minutes | IR_OEL |
| homopolymer | | 0,07 | Limit (STEL): | 15 milates | III_OLL |
| 25686-28-6 | | | Emit (OTEE). | | |
| [ISOCYANATES, ALL, EXCEPT | | | | | |
| METHYL ISOCYANATE (CAS NO. 624- | | | | | |
| 83-9) AND TOLUENE (2,4 OR 2,6 | | | | | |
| DIISOCYANATE (CAS NO. 584-84-9, 91- | | | | | |
| 08-7)] | | | | | |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|-----------------|-----------------|-----|----------------|--------|----------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| Xylene - mixture of isomeres | aqua | | 0,327 mg/l | | | | |
| 1330-20-7 Xylene - mixture of isomeres | (freshwater) sediment | | | | 12,46 | | |
| 1330-20-7 | (freshwater) | | | | mg/kg | | |
| Xylene - mixture of isomeres 1330-20-7 | Soil | | | | 2,31 mg/kg | | |
| Xylene - mixture of isomeres 1330-20-7 | aqua (marine water) | | 0,327 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | aqua (intermittent releases) | | 0,327 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | sewage treatment plant (STP) | | 6,58 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | sediment (marine water) | | | | 12,46 mg/kg | | |
| ethylbenzene | aqua | | 0,1 mg/l | | IIIg/kg | | |
| 100-41-4 | (intermittent releases) | | ,,,g, | | | | |
| ethylbenzene 100-41-4 | aqua (freshwater) | | 0,1 mg/l | | | | |
| ethylbenzene 100-41-4 | sediment (marine water) | | | | 1,37 mg/kg | | |
| ethylbenzene | sediment | | | | 13,7 mg/kg | | |
| 100-41-4 ethylbenzene | (freshwater) sewage | | 9,6 mg/l | | | | |
| 100-41-4 | treatment plant (STP) | | 9,0 mg/1 | | | | |
| ethylbenzene 100-41-4 | aqua (marine water) | | 0,01 mg/l | | | | |
| ethylbenzene 100-41-4 | Soil | | | | 2,68 mg/kg | | |
| ethylbenzene 100-41-4 | oral | | | | 20 mg/kg | | |
| Titanium dioxide 13463-67-7 | Predator | | | | | | no potential for bioaccumulation |
| methylenediphenyl diisocyanate 26447-40-5 | sewage treatment plant (STP) | | 1 mg/l | | | | |
| methylenediphenyl diisocyanate 26447-40-5 | aqua (freshwater) | | 1 mg/l | | | | |
| methylenediphenyl diisocyanate 26447-40-5 | aqua (marine water) | | 0,1 mg/l | | | | |
| methylenediphenyl diisocyanate 26447-40-5 | Soil | | | | 1 mg/kg | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | aqua (freshwater) | | 0,0037 mg/l | | | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | aqua (intermittent releases) | | 0,037 mg/l | | | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | aqua (marine water) | | 0,00037 mg/l | | | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sediment (freshwater) | | | | 11,7 mg/kg | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sediment (freshwater) | | | | 1,17 mg/kg | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | Soil | | | | 2,33 mg/kg | | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | Predator | | | | | | no potential for bioaccumulation |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | aqua (freshwater) | | 1 mg/l | | | | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | aqua (marine water) | | 0,1 mg/l | | | | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | Soil | | | | 1 mg/kg | | |

| ì | | | • | • | |
|--------------------------------------|-----------------|---------|---|---|--|
| 4,4'-Methylenediphenyl diisocyanate, | sewage | 1 mg/l | | | |
| homopolymer | treatment plant | _ | | | |
| 25686-28-6 | (STP) | | | | |
| 4,4'-Methylenediphenyl diisocyanate, | aqua | 10 mg/l | | | |
| homopolymer | (intermittent | | | | |
| 25686-28-6 | releases) | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---------------------|----------------------|--|------------------|-------------|----------------------------------|
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Long term exposure - systemic effects | Time | 221 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 442 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Long term exposure - local effects | | 221 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Acute/short term exposure - local effects | | 442 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | dermal | Long term exposure - systemic effects | | 212 mg/kg | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Long term exposure - systemic effects | | 65,3 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Long term exposure - local effects | | 65,3 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Acute/short term exposure - local effects | | 260 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | dermal | Long term exposure - systemic effects | | 125 mg/kg | |
| Xylene - mixture of isomeres 1330-20-7 | General population | oral | Long term exposure - systemic effects | | 12,5 mg/kg | |
| ethylbenzene 100-41-4 | Workers | inhalation | Acute/short term exposure - local effects | | 293 mg/m3 | |
| ethylbenzene 100-41-4 | General population | inhalation | Long term exposure - systemic effects | | 15 mg/m3 | |
| ethylbenzene 100-41-4 | General population | oral | Long term exposure - systemic effects | | 1,6 mg/kg | |
| ethylbenzene 100-41-4 | Workers | dermal | Long term exposure - systemic effects | | 180 mg/kg | |
| ethylbenzene 100-41-4 | Workers | inhalation | Long term exposure - systemic effects | | 77 mg/m3 | |
| Titanium dioxide 13463-67-7 | Workers | inhalation | Long term exposure - local effects | | 0,17 mg/m3 | no potential for bioaccumulation |
| Titanium dioxide 13463-67-7 | General population | inhalation | Long term exposure - local effects | | 0,028 mg/m3 | no potential for bioaccumulation |
| methylenediphenyl diisocyanate 26447-40-5 | Workers | inhalation | Long term exposure - local effects | | 0,05 mg/m3 | |
| methylenediphenyl diisocyanate 26447-40-5 | Workers | inhalation | Acute/short term exposure - local effects | | 0,1 mg/m3 | |
| methylenediphenyl diisocyanate 26447-40-5 | General population | inhalation | Acute/short term exposure - local effects | | 0,05 mg/m3 | |
| methylenediphenyl diisocyanate 26447-40-5 | General population | inhalation | Long term exposure - local effects | | 0,025 mg/m3 | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | Workers | inhalation | Long term exposure - local effects | | 0,05 mg/m3 | no potential for bioaccumulation |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | Workers | inhalation | Acute/short term exposure - local | | 0,1 mg/m3 | no potential for bioaccumulation |

| | 1 | | effects | | |
|---|-----------------------|------------|---|-------------|-------------------------------------|
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | General population | inhalation | Long term exposure - local effects | 0,025 mg/m3 | no potential for bioaccumulation |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | General population | inhalation | Acute/short term exposure - local effects | 0,05 mg/m3 | no potential for bioaccumulation |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | Workers | inhalation | Long term exposure - local effects | 0,05 mg/m3 | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | Workers | inhalation | Acute/short term exposure - local effects | 0,1 mg/m3 | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | General population | inhalation | Long term exposure - local effects | 0,025 mg/m3 | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 | General population | inhalation | Acute/short term exposure - local effects | 0,05 mg/m3 | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|---|-----------------------------------|---------------------|--|-------|----------------------------------|--------|---------------------------|
| Xylene 1330-20-7 [XYLENE O-, M-, P-, OR MIXED ISOMERS] | Methylhippur ic acids | Creatinine in urine | Sampling time: End of shift. | | UKEH40BMG V | | |
| Methylenediphenyl diisocyanate 26447-40-5 [ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI)] | Isocyanate- derived diamine | Creatinine in urine | Sampling time: At the end of the period of exposure. | | UKEH40BMG V | | |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI)] | Isocyanate- derived diamine | Creatinine in urine | Sampling time: At the end of the period of exposure. | | UKEH40BMG V | | |
| 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI)] | Isocyanate- derived diamine | Creatinine in urine | Sampling time: At the end of the period of exposure. | | UKEH40BMG V | | |

8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

Respiratory protection:

If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

The product should only be used at workplaces with intensive ventilation/extraction.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Fluorinated rubber (FKM; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Fluorinated rubber (FKM; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

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

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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

Physical state solid

Delivery form solid material
Colour white
Odor of solvent

Solidification temperature Not applicable, Product is a solid.

Initial boiling point Not available. Flammability non flammable

Explosive limits

lower 0,1 %(V); No data available.

upper 7,6 %(V);

Upper/lower explosion limit

Flash point Not available.

Auto-ignition temperature

Not applicable, Product is a solid.

Decomposition temperature

Currently under determination

pH Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) Not applicable, Product is a solid.

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Currently under determination

Vapour pressure < 100 hPa

(20 °C (68 °F))

Density 1,19 g/cm3 QP2107.1; Density

(20 °C (68 °F))

Relative vapour density:

Particle characteristics

Not applicable, Product is a solid.

Currently under determination

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water: Pressure built up in closed vessel (CO2).

Reaction with water, alcohols, amines.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Humidity

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

| Hazardous substances | Value | Value | Species | Method |
|---|----------------|---------------|---------|--|
| CAS-No. | type | | | |
| Oxirane, methyl-, polymer with oxirane, | Acute toxicity | > 5.000 mg/kg | | Expert judgement |
| ether with 1,2,3- | estimate | | | |
| propanetriol (3:1), | (ATE) | | | |
| polymer with 1,1'- | () | | | |
| methylenebis[4- | | | | |
| isocyanatobenzene] | | | | |
| 59675-67-1 | | | | |
| Xylene - mixture of | LD50 | 3.523 mg/kg | rat | EU Method B.1 (Acute Toxicity (Oral)) |
| isomeres | | | | |
| 1330-20-7 | | | | |
| ethylbenzene | LD50 | 3.500 mg/kg | rat | not specified |
| 100-41-4 | | | | |
| Titanium dioxide | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down |
| 13463-67-7 | | | | Procedure) |
| Hydrocarbons, C11-C12, | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| isoalkanes, < 2% | | | | |
| aromatics | | | | |
| 90622-57-4 | T D 50 | 7.616 7 | | OFCD C 111 401 (A O . 1 T) |
| methylenediphenyl | LD50 | > 7.616 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| diisocyanate 26447-40-5 | | | | |
| | LD50 | > 2 000/1 | 4 | -4 |
| 4,4'- methylenediphenyl diisocyanate | LD30 | > 2.000 mg/kg | rat | other guideline: |
| 101-68-8 | | | | |
| MDI homopolymer | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down |
| 25686-28-6 | LDJU | > 5.000 mg/kg | lut | Procedure) |

Acute dermal toxicity:

| Hazardous substances | Value | Value | Species | Method |
|---|-------------------------------|--------------------------|---------|---|
| CAS-No. | type | | | |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| ethylbenzene 100-41-4 | LD50 | 15.433 mg/kg | rabbit | not specified |
| Titanium dioxide 13463-67-7 | LD50 | > 10.000 mg/kg | rabbit | not specified |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | LD50 | > 2.200 - 2.500 mg/kg | rabbit | not specified |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | Acute toxicity estimate (ATE) | 2.201 mg/kg | | Expert judgement |
| methylenediphenyl diisocyanate 26447-40-5 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| MDI homopolymer 25686-28-6 | LD50 | > 9.400 mg/kg | rabbit | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Test atmosphere | Exposure | Species | Method |
|---|--|-------------|-----------------|----------|---------|------------------|
| CAS-No. | type | | | time | | |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | Acute toxicity estimate (ATE) | 1,5 mg/l | dust/mist | 4 h | | Expert judgement |
| Xylene - mixture of isomeres 1330-20-7 | LC50 | 11 mg/l | vapour | 4 h | rat | not specified |
| ethylbenzene 100-41-4 | LC50 | 17,2 mg/l | vapour | 4 h | rat | not specified |
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|-----------------------|---------------|---------|---|
| Xylene - mixture of isomeres 1330-20-7 | moderately irritating | | rabbit | not specified |
| ethylbenzene 100-41-4 | moderately irritating | 24 h | rabbit | not specified |
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | mildly irritating | | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| methylenediphenyl diisocyanate 26447-40-5 | highly irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| MDI homopolymer 25686-28-6 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous substances | Result | Exposure | Species | Method |
|------------------------|----------------|----------|---------|---|
| CAS-No. | | time | | |
| Xylene - mixture of | slightly | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| isomeres | irritating | | | |
| 1330-20-7 | | | | |
| ethylbenzene | slightly | | rabbit | not specified |
| 100-41-4 | irritating | | | |
| Titanium dioxide | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 13463-67-7 | | | | |
| Hydrocarbons, C11-C12, | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| isoalkanes, < 2% | _ | | | |
| aromatics | | | | |
| 90622-57-4 | | | | |
| methylenediphenyl | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| diisocyanate | | | | , |
| 26447-40-5 | | | | |

Respiratory or skin sensitization:

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|--|-----------------|---------------------------------------|------------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | sensitising | Respiratory sensitisation | guinea pig | not specified |
| Xylene - mixture of isomeres 1330-20-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide 13463-67-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide 13463-67-7 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | not sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sensitising | Respiratory sensitisation | guinea pig | not specified |
| MDI homopolymer 25686-28-6 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| MDI homopolymer 25686-28-6 | sensitising | Respiratory sensitisation | rat | not specified |

Germ cell mutagenicity:

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|---------|---|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| methylenebis[4-isocyanatobenzene] 59675-67-1 | | | | | |
| Xylene - mixture of isomeres 1330-20-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Xylene - mixture of isomeres 1330-20-7 | negative | in vitro mammalian chromosome aberration test | with and without | | EU Method B.10 (Mutagenicity) |
| Xylene - mixture of isomeres 1330-20-7 | negative | sister chromatid exchange assay in mammalian cells | with and without | | EU Method B.19 (Sister Chromatid Exchange Assay In Vitro) |
| ethylbenzene 100-41-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| ethylbenzene 100-41-4 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| ethylbenzene 100-41-4 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| ethylbenzene 100-41-4 | negative | sister chromatid exchange assay in mammalian cells | with and without | | not specified |
| Titanium dioxide 13463-67-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Titanium dioxide 13463-67-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian cell micronucleus test | without | | equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | sister chromatid exchange assay in mammalian cells | with and without | | equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) |
| methylenediphenyl diisocyanate 26447-40-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| MDI homopolymer 25686-28-6 | negative | bacterial reverse mutation assay (e.g | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation |

| | 1 | Ames test) | | Assay) |
|---|----------|---------------------|-------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | negative | inhalation | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Xylene - mixture of isomeres 1330-20-7 | negative | intraperitoneal | rat | OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| ethylbenzene 100-41-4 | negative | oral: gavage | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| ethylbenzene 100-41-4 | negative | inhalation | mouse | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |
| Titanium dioxide 13463-67-7 | negative | oral: gavage | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | negative | | rat | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | negative | inhalation | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| MDI homopolymer 25686-28-6 | negative | inhalation: aerosol | rat | OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay) |
| MDI homopolymer 25686-28-6 | negative | inhalation | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

Carcinogenicity

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|------------------|------------------------|--|---------|-------------|--|
| Xylene - mixture of isomeres 1330-20-7 | not carcinogenic | oral: gavage | 103 w 5 d/w | rat | male/female | EU Method B.32 (Carcinogenicity Test) |
| ethylbenzene 100-41-4 | carcinogenic | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Titanium dioxide 13463-67-7 | not carcinogenic | oral: feed | 103 w daily | rat | male/female | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | carcinogenic | inhalation: aerosol | 2 y 6 h/d | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| MDI homopolymer 25686-28-6 | carcinogenic | inhalation: aerosol | 2 y 6 h/d, 5 d/w | rat | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---|-----------------------------|----------------------|---------|---|
| ethylbenzene 100-41-4 | NOAEL P 1000 ppm NOAEL F1 100 ppm | One generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study) |
| ethylbenzene 100-41-4 | NOAEL P 500 ppm NOAEL F1 500 ppm NOAEL F2 500 ppm | Two generation study | inhalation | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Titanium dioxide 13463-67-7 | NOAEL P >= 1.000 mg/kg NOAEL F1 >= 1.000 mg/kg | one- generation study | oral: feed | rat | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | NOAEL P >= 1.720 mg/kg NOAEL F1 >= 1.720 mg/kg | screening | inhalation | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| MDI homopolymer 25686-28-6 | NOAEL P 2.03 mg/m3 NOAEL F1 2.03 mg/m3 | screening | inhalation | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---------------------|------------------------|--|---------|---|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | NOAEL 0,0002 mg/l | inhalation: aerosol | 2 years 6 h/d; 5 d/w | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Xylene - mixture of isomeres 1330-20-7 | NOAEL 150 mg/kg | oral: gavage | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| ethylbenzene 100-41-4 | NOAEL 75 mg/kg | oral: gavage | 28 d daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Titanium dioxide 13463-67-7 | NOAEL > 1.000 mg/kg | oral: gavage | 92 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | NOAEL 5.000 mg/kg | oral: gavage | 13 weeks daily | rat | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | NOAEL 0,0002 mg/l | inhalation: aerosol | main: 2 y; satellite:1 y 6 h/d; 5 d/w | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| MDI homopolymer 25686-28-6 | NOAEL 0.2 mg/m3 | inhalation: aerosol | 2 y 6 h/d; 5 d/w | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|--|--------------------------------|-------------|-------------------------|---------|
| ethylbenzene 100-41-4 | 0,641 mm2/s | 40 °C | OECD Test Guideline 114 | |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | 0,34 mm2/s | 40 °C | not specified | |

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|-----------------------------|---------------|--|---|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | LC50 | > 1.000 mg/l | 96 h | not specified | not specified |
| Xylene - mixture of isomeres 1330-20-7 | LC50 | 2,6 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Xylene - mixture of isomeres 1330-20-7 | NOEC | > 1,3 mg/l | 56 d | Oncorhynchus mykiss | other guideline: |
| ethylbenzene 100-41-4 | LC50 | 4,2 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | LL50 | > 1.000 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| methylenediphenyl diisocyanate 26447-40-5 | LC50 | > 10.000 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | LL50 | > 100 mg/l | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| MDI homopolymer 25686-28-6 | LC50 | > 1.000 mg/l | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (Daphnia):

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|---|-------|-----------------------------|---------------|---------------|--|
| CAS-No. | type | | | | |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | EC50 | > 1.000 mg/l | 48 h | not specified | not specified |
| Xylene - mixture of isomeres 1330-20-7 | EC50 | 3,1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| ethylbenzene 100-41-4 | EC50 | > 1,8 - 2,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | EL50 | > 1.000 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| methylenediphenyl diisocyanate 26447-40-5 | EC50 | > 1.000 mg/l | 24 h | Daphnia magna | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | EC50 | > 100 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| MDI homopolymer 25686-28-6 | EC50 | 129,7 mg/l | 24 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|-----------------------------|---------------|--------------------|--|
| CAS-No. | type | | | | |
| Xylene - mixture of isomeres 1330-20-7 | NOEC | 0,96 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |
| ethylbenzene 100-41-4 | NOEC | 0,96 mg/l | 7 d | Ceriodaphnia dubia | OECD 211 (Daphnia magna, Reproduction Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | NOELR | > 1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | NOEC | 10 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| MDI homopolymer 25686-28-6 | NOEC | 10 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|-----------------------------|---------------|---|--|
| CAS-No. | type | | | | |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] | EC50 | > 1.640 mg/l | 72 h | not specified | not specified |
| 59675-67-1 | | | | | |
| Xylene - mixture of isomeres 1330-20-7 | EC50 | 4,36 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Xylene - mixture of isomeres 1330-20-7 | EC10 | 1,9 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| ethylbenzene 100-41-4 | EC50 | 7,7 mg/l | 96 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| ethylbenzene 100-41-4 | NOEC | 4,5 mg/l | 96 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | EL50 | > 1.000 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | NOELR | 1.000 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| methylenediphenyl diisocyanate 26447-40-5 | ErC50 | > 100 mg/l | 72 h | Desmodesmus subspicatus | not specified |
| methylenediphenyl diisocyanate 26447-40-5 | NOEC | 1.640 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | EL50 | > 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | NOELR | 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| MDI homopolymer 25686-28-6 | EC50 | > 1.640 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| MDI homopolymer 25686-28-6 | NOEC | 1.640 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|---|-------|------------------|---------------|-------------------------------|--|
| CAS-No. | type | | | | |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | IC50 | > 100 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| ethylbenzene | EC50 | > 152 mg/l | 30 min | not specified | OECD Guideline 209 |
| 100-41-4 | | | | | (Activated Sludge, |
| | | | | | Respiration Inhibition Test) |
| Titanium dioxide | EC0 | Toxicity > Water | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 |
| 13463-67-7 | | solubility | | | (Pseudomonas |
| | | | | | Zellvermehrungshemm- |
| | | | | | Test) |
| methylenediphenyl | EC50 | > 100 mg/l | 3 h | | OECD Guideline 209 |
| diisocyanate | | | | | (Activated Sludge, |
| 26447-40-5 | | | | | Respiration Inhibition Test) |
| 4,4'- methylenediphenyl | EC50 | > 1.000 mg/l | 3 h | activated sludge of a | OECD Guideline 209 |
| diisocyanate | | | | predominantly domestic sewage | (Activated Sludge, |
| 101-68-8 | | | | | Respiration Inhibition Test) |
| MDI homopolymer | EC50 | > 100 mg/l | 3 h | activated sludge | OECD Guideline 209 |
| 25686-28-6 | | | | | (Activated Sludge, |
| | | | | | Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|---------------------------------|---------------|---------------|---------------|---|
| Xylene - mixture of isomeres 1330-20-7 | readily biodegradable | aerobic | 90 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| ethylbenzene 100-41-4 | readily biodegradable | aerobic | 69 % | 33 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | not readily biodegradable. | aerobic | 31,3 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics 90622-57-4 | inherently biodegradable | aerobic | 72 % | 60 day | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| methylenediphenyl diisocyanate 26447-40-5 | not inherently biodegradable | aerobic | 0 % | 28 day | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |
| methylenediphenyl diisocyanate 26447-40-5 | not readily biodegradable. | not specified | 0 % | 28 d | OECD 301 A - F |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| MDI homopolymer 25686-28-6 | not readily biodegradable. | aerobic | > 0 - < 60 % | 28 d | OECD 301 A - F |
| MDI homopolymer 25686-28-6 | not inherently biodegradable | aerobic | 0 % | 28 d | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|---|-----------------------------------|---------------|-------------|-------------------------|--|
| Xylene - mixture of isomeres 1330-20-7 | 25,9 | 56 d | | Oncorhynchus mykiss | not specified |
| ethylbenzene 100-41-4 | 1 | 42 d | 10 °C | Oncorhynchus kisutch | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| methylenediphenyl diisocyanate 26447-40-5 | < 1 | 112 d | | Oncorhynchus mykiss | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | 92 - 200 | 28 d | | Cyprinus carpio | OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test) |
| MDI homopolymer 25686-28-6 | > 92 - 200 | 28 d | | Cyprinus carpio | OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test) |

12.4. Mobility in soil

| Hazardous substances | LogPow | Temperature | Method |
|------------------------------|--------|-------------|---|
| CAS-No. | | | |
| Xylene - mixture of isomeres | 3,16 | 20 °C | not specified |
| 1330-20-7 | | | |
| ethylbenzene | 3,6 | 20 °C | EU Method A.8 (Partition Coefficient) |
| 100-41-4 | | | |
| 4,4'- methylenediphenyl | 4,51 | 22 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC |
| diisocyanate | | | Method) |
| 101-68-8 | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous substances | PBT / vPvB |
|---|--|
| CAS-No. | |
| Xylene - mixture of isomeres | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 1330-20-7 | Bioaccumulative (vPvB) criteria. |
| ethylbenzene | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 100-41-4 | Bioaccumulative (vPvB) criteria. |
| Titanium dioxide | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not |
| 13463-67-7 | be conducted for inorganic substances. |
| Hydrocarbons, C11-C12, isoalkanes, < 2% | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| aromatics | Bioaccumulative (vPvB) criteria. |
| 90622-57-4 | |
| methylenediphenyl diisocyanate | Not fulfilling very Persistent and very Bioaccumulative (vPvB) criteria |
| 26447-40-5 | |
| 4,4'- methylenediphenyl diisocyanate | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 101-68-8 | Bioaccumulative (vPvB) criteria. |
| MDI homopolymer | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 25686-28-6 | Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you. 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

| Not dangerous goods |
|---------------------|
| 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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable Not applicable Not applicable

VOC content (2010/75/EU) 12,2 %

VOC Paints and Varnishes (EU):

Product (sub)category: This product is not a subject of the Directive 2004/42/EC

max. VOC content: 70 g/l

15.2. Chemical safety assessment

A chemical safety assessment has 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:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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