

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier.

Product form : Mixture

Product name : ACE MP-4035

Product code : S00P635

Type of product : Adhesives, sealants

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

Relevant identified uses: Intended for general public

Uses advised against: No additional information available

1.3 Details of the supplier of the safety data sheet.

Company: ACE COATINGS

Address: Campo Sagrado, 1133205

City: Gijón

Province: Asturias

Telephone: +34 985 323 328

E-mail: info@acecoatings.com

Web: www.acecoatings.com

1.4 Emergency telephone number: (Available 24 hours)

Telephone number :

Telephone number : EUROPE: +34 985 32 33 28

+34 977 822 245 (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Respiratory sensitisation, Category 1 H334

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]Extra labelling to displayExtra classification(s) to display

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger

Hazardous ingredients :

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

Hazard statements (CLP) :

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

Precautionary statements (CLP) :

P102 - Keep out of reach of children.

P261 - Avoid breathing fume, dust, gas, mist, spray, vapours.

P284 - In case of inadequate ventilation wear respiratory protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases :

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.

Child-resistant fastening : Not applicable

Tactile warning : Applicable

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-211945701447-0000	< 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
Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2 (REACH-no) 01-211937949916	< 1	Eye Dam. 1, H318

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-211945701447-0000	(0.1 =<C <= 100) Resp. Sens. 1, H334 (5 =<C <= 100) Eye Irrit. 2, H319 (5 =<C <= 100) Skin Irrit. 2, H315 (5 =<C <= 100) STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

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First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

ACE MP-4035**6.4. Reference to other sections**

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

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EU - Occupational Exposure Limits

Local name: Xylene, mixed isomers, pure

IOELV TWA (mg/m³): 221 mg/m³

IOELV TWA (ppm): 50 ppm

IOELV STEL (mg/m³): 442 mg/m³

IOELV STEL (ppm): 100 ppm

Notes: Skin

Regulatory reference: COMMISSION DIRECTIVE 2000/39/EC

Austria - Occupational Exposure Limits

Local name: Diphenylmethan-4,4'-diisocyanat

MAK (mg/m³): 0.05 mg/m³

MAK (ppm): 0.005 ppm

MAK Short time value (mg/m³): 0.1 mg/m³

MAK Short time value (ppm): 0.01 ppm

Remark (AT): Sah

Regulatory reference: BGI. II Nr. 186/2015

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ACE MP-4035**Belgium - Occupational Exposure Limits**

Local name: 4,4'-Diisocyanate de diphénylméthane (MDI) # Difenylmethaan-4,4'-di-isocyanaat (MDI)

Limit value (mg/m³): 0.052 mg/m³

Limit value (ppm): 0.005 ppm

Short time value (mg/m³): 442 mg/m³

Short time value (ppm): 100 ppm

Regulatory reference: Koninklijk besluit/Arrêté royal 02/09/2018

Bulgaria - Occupational Exposure Limits

Local name: Ксилен (смес от изомери), чист

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Notes: Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)

Regulatory reference: Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.73 от 4 септември 2018 г.)

Croatia - Occupational Exposure Limits

Local name: Ksilen (svi izomeri)

GVI (granična vrijednost izloženosti) (mg/m³): 221 mg/m³

GVI (granična vrijednost izloženosti) (ppm): 50 ppm

KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³): 442 mg/m³

KGVI (kratkotrajna granična vrijednost izloženosti) (ppm): 100 ppm

Naznake (HR) Direktiva: 2000/39/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))

Regulatory reference: Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)

Croatia - Biological limit values

Local name Ksilen

Czech Republic - Occupational Exposure Limits

Local name: Difenylmethan-4,4'-diisokyanát (1,1'-Methylenbis(4-isokyanatobenzen))

Expoziční limity (PEL) (mg/m³): 0.05 mg/m³

Expoziční limity (PEL) (ppm): 0.005 ppm

Expoziční limity (NPK-P) (mg/m³): 0.1 mg/m³

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Expoziční limity (NPK-P) (ppm): 0.01 ppm

Remark (CZ): I (dráždí sliznice (oči, dýchací cesty) resp. kůže), S (látko má senzibilizační účinek)

Regulatory reference: Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)

Denmark - Occupational Exposure Limits

Local name: Diphenylmethan-4,4'-diisocyanat (MDI; Methylenbis(phenylisocyanat))

Grænseværdie (langvarig) (mg/m³): 0.05 mg/m³

Grænseværdie (langvarig) (ppm): 0.005 ppm

Anmærkninger (DK): E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)

Regulatory reference: BEK nr 655 af 31/05/2018

Estonia - Occupational Exposure Limits

Local name: 4,4'-metüleendifenüül-diisotsüanaat (fenüülisotsüanaat)

OEL TWA (mg/m³): 0.05 mg/m³

OEL TWA (ppm): 0.005 ppm

OEL STEL (mg/m³): 450 mg/m³

OEL STEL (ppm): 100 ppm

OEL Ceiling (mg/m³): 0.1 mg/m³

OEL Ceiling (ppm): 0.01 ppm

Remark (ET): S (Sensibiliseerivad ained), 2 (Arvutatud 5-minutisele kokkupuuteajale)

Regulatory reference: Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)

Finland - Occupational Exposure Limits

Local name: Ksyleeni

HTP-arvo (8h) (mg/m³): 220 mg/m³

HTP-arvo (8h) (ppm): 50 ppm

HTP-arvo (15 min): 440 mg/m³

HTP-arvo (15 min) (ppm): 100 ppm

Huomautus (FI): iho

Regulatory reference: HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)

Finland - Biological limit values

Local name: Ksyleeni

Finland - BLV 5 mmol/l Parametri: Virtsan metyylihippuurihappo - Näytteenottoajankohta: Työvuoron päätyttyä

Regulatory reference: HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)

ACE MP-4035**France - Occupational Exposure Limits**

Local name: 4,4'-Diisocyanate de diphénylméthane

VME (mg/m³): 0.1 mg/m³

VME (ppm): 0.01 ppm

VLE (mg/m³): 0.2 mg/m³

VLE (ppm): 0.02 ppm

Note (FR): Valeurs recommandées/admises; certaines ou toutes ces VLE s'entendent pour des concentrations mesurées sur une durée de 5 min; risque d'allergie respiratoire, substance classée cancérogène de catégorie 2

Regulatory reference: Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Germany - Occupational Exposure Limits (TRGS 900)

TRGS 900 Local name: 4,4'-Methyldiphenyldiisocyanat

Occupational exposure limit value (mg/m³): 0.05 mg/m³ (E)

Occupational exposure limit value (ppm): 100 ppm

Limitation of exposure peaks: 1;=2=(I)

TRGS 900 Remark: DFG;11;12;H;Sah;Y

TRGS 900 Regulatory reference: TRGS900

Germany - Biological limit values (TRGS 903)

TRGS 903 Local name: Xylol (alle Isomere)

TRGS 903 Biological limit value: 2000 mg/l Parameter: Methylhippur-(Tolur-) säure (alle Isomere) -

Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende -

Festlegung/Begründung: 11/2016 DFG

TRGS 903 Regulatory reference: TRGS 903

Gibraltar - Occupational Exposure Limits

Name of agent: Xylene, mixed isomers, pure

Eight hours mg/m³: 221 mg/m³

Eight hours ppm: 50 ppm

Short-term mg/m³: 442 mg/m³

Short-term ppm: 100 ppm

Notation: Skin

Regulatory reference: Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)

Greece - Occupational Exposure Limits

Local name: Διisοκυανικός εστέρας του διφαινυλομεθάνιου (MDI)

OEL TWA (mg/m³): 0.2 mg/m³

OEL TWA (ppm): 0.02 ppm

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Regulatory reference: Π.Δ. 90/1999

Hungary - Occupational Exposure Limits

Local name: difenilmetán-4,4'-diizocianát (MDI)

AK-érték: 0.05 mg/m³CK-érték: 0.05 mg/m³**Hungary - Biological limit values**

Local name: Xilol

Regulatory reference: 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról

Ireland - Occupational Exposure Limits

Local name: 4,4'-Methylene-diphenyl diisocyanate (as —NCO)

OEL (8 hours ref) (mg/m³): 221 mg/m³

OEL (8 hours ref) (ppm): 0.005 ppm

OEL (15 min ref) (mg/m³): 442 mg/m³

OEL (15 min ref) (ppm): 100 ppm

Italy - Occupational Exposure Limits

Local name: Xilene, isomeri misti, puro

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Notes: pelle

Regulatory reference: Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.

Latvia - Occupational Exposure Limits

Local name: Ksilols (o-,m-,p-ksilols, dimetilbenzols)

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Regulatory reference: Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325

Lithuania - Occupational Exposure Limits

Local name: Metileno bisfenilizocianatas (MDI)

IPRV (mg/m³): 0.05 mg/m³

IPRV (ppm): 0.005 ppm

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ACE MP-4035TPRV (mg/m³): 442 mg/m³

TPRV (ppm): 100 ppm

NRV (mg/m³): 0.1 mg/m³

NRV (ppm): 0.01 ppm

Remark (LT): J (jautrinantis poveikis); Nustatytas 5 min. poveikio trukmės NRD. Tas pats RD, išreikštas ppm, taikomas izocianatams, kurių RD nenustatytas. Ši nuostata taikoma ir dulkių ar lašelių (aerozolių) pavidalo izocianatams, įskaitant prepolymerizuotus izocianatus (aduktus). Skirtingų medžiagų RD, išreikšti mg/m³, yra skirtingi.

Regulatory reference: LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

Luxembourg - Occupational Exposure Limits

Local name: Xylène, isomères mixtes, purs

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Regulatory reference: Mémorial A N° 684 de 2018

Malta - Occupational Exposure Limits

Local name: Xylene, mixed isomers, pure # Xylene, Isomeri mhallta, puri

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Regulatory reference: S.L.424.24 (L.N.57 of 2018)

Netherlands - Occupational Exposure Limits

Local name: Xyleen, o-, m-, p-isomeren

Grenswaarde TGG 8H (mg/m³): 210 mg/m³Grenswaarde TGG 15MIN (mg/m³): 442 mg/m³

Remark (MAC): H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.

Regulatory reference: Arbeidsomstandighedenregeling 2018

Poland - Occupational Exposure Limits

Local name: Metylenobis(fenyloizocyjanian) (diizocyjanian 4,4'-metylenodifenyly)

NDS (mg/m³): 0.03 mg/m³NDSch (mg/m³): 0.09 mg/m³**Dirección Corporativa:**

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Remark (PL): Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową)

Regulatory reference: Dz. U. 2018 poz. 1286

Portugal - Occupational Exposure Limits

Local name: Metilenodifenilisocianato (MDI)

OEL TWA (ppm): 0.005 ppm

OEL STEL (ppm): 150 ppm

Regulatory reference: Norma Portuguesa NP 1796:2014

Portugal - Biological limit values

Local name: Xilenos (graus técnico e comercial)

Portugal (BEI): 1.5 g/g creatinine Parâmetro: Ácidos (o, m, p)-metilhipúricos - Meio: urina - Momento da amostragem: Fim do turno

Regulatory reference: Norma Portuguesa NP 1796:2014

Romania - Occupational Exposure Limits

Local name: 4,4'-Metilendifenil diizocianat

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 0.15 mg/m³

OEL STEL (ppm): 100 ppm

Regulatory reference: Hotărârea nr. 584/2018

Romania - Biological limit values

Local name: Xilen

Romania - BLV 3 g/l Indicador biologic: Acid metilhipuric - Material biologic: urină - Momentul recoltării: sfârșit schimb

Regulatory reference: Hotărârea nr. 584/2018

Serbia - Occupational Exposure Limits

Local name: ксилен, мешани изомери, чист

OEL TWA (mg/m³): 221 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Notes EU* – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2000/39/EЗ (прва листа); К –напомена да хемијска материја може штетно деловати на кожу Regulatory reference ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама

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(„Службени гласник РС”, бр. 106/09 и 117/17)

Slovakia - Occupational Exposure Limits

Local name: Izokyanáty: 4,4'-Metyléndifenyilizokyanát (MDI)

NPHV (priemerná) (mg/m³): 0.03 mg/m³

NPHV (priemerná) (ppm): 0.002 ppm

OEL STEL (mg/m³): 442 mg/m³

OEL STEL (ppm): 100 ppm

Upozornenie (SK): S - znamená, že faktor môže spôsobiť senzibilizáciu

Regulatory reference: Nariadenie vlády č. 33/2018 Z.z.

Slovakia - Biological limit values

Local name: Xylén (všetky izoméry)

Slovakia - BLV: 1.5 mg/l Zisťovaný faktor: Xylén - Vyšetrovaný materiál: krv - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 2000 mg/l Zisťovaný faktor: Suma kyselín 2,3,4-metylhippurových - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny

Regulatory reference: Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)

Slovenia - Occupational Exposure Limits

Local name difenilmetan-4,4'-diizocianat (4,4'-metilendifenil diizocianat)

OEL TWA (mg/m³): 0.05 mg/m³-0.005 mg/m³

OEL TWA (ppm): 50 ppm

OEL STEL (mg/m³): 0.05 mg/m³

OEL STEL (ppm): 0.005 ppm

Remark (SI): K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti)

Regulatory reference: Uradni list RS, št. 78/2018 z dne 4.12.2018

Slovenia - Biological limit values

Local name: ksilen (vse izomere)

Regulatory reference: Uradni list RS, št. 78/2018 z dne 4.12.2018

Spain - Occupational Exposure Limits

Local name: Diisocianato de 4,4'-difenilmetano (MDI)

VLA-ED (mg/m³): 0.052 mg/m³

VLA-ED (ppm): 0.005 ppm

VLA-EC (mg/m³): 442 mg/m³

VLA-EC (ppm): 100 ppm

ACE MP-4035**Spain - Biological limit values**

Local name: Xilenos, mezcla isómeros

Spain - BLV: 1 g/g creatinine Parámetro: Ácidos metilhipúricos - Medio: Orina - Momento de muestreo: Final de la jornada laboral

Regulatory reference: Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT

Sweden - Occupational Exposure Limits

Local name: 4,4'-Metylendifenylidiisocyanat (MDI)

nivågränsvärde (NVG) (mg/m³): 0.03 mg/m³

nivågränsvärde (NVG) (ppm): 0.002 ppm

kortidsvärde (KTV) (mg/m³): 0.05 mg/m³

kortidsvärde (KTV) (ppm): 0.005 ppm

United Kingdom - Occupational Exposure Limits

Local name: Xylene

WEL TWA (mg/m³): 220 mg/m³ o-,m-,p- or mixed isomers

WEL TWA (ppm): 50 ppm o-,m-,p- or mixed isomers

WEL STEL (mg/m³): 441 mg/m³ o-,m-,p- or mixed isomers

WEL STEL (ppm): 100 ppm o-,m-,p- or mixed isomers

Remark (WEL): Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

Regulatory reference: EH40/2005 (Third edition, 2018). HSE

United Kingdom - Biological limit values

Local name: Xylene, o-, m-, p- or mixed isomers

United Kingdom (BEI) 650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift

Regulatory reference: EH40/2005 (Third edition, 2018). HSE

Iceland - Occupational Exposure Limits

Local name: Metýlenbis(fenýlísósýanat) (dífenýlmetan-4,4'-díísósýanat, MDI)

OEL (8 hours ref) (mg/m³): 0.05 mg/m³

OEL (8 hours ref) (ppm): 0.005 ppm

OEL (15 min ref) (mg/m³): 0.1 mg/m³ Þakgildið er miðað við fimm mínútna tímabil

OEL (15 min ref) (ppm): 0.01 ppm Þakgildið er miðað við fimm mínútna tímabil

Notes (IS): O (efnið er ofnæmisvaldandi)

Regulatory reference: Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)

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Norway - Occupational Exposure Limits

Local name: Difenylnmetan-4,4'-diisocyanat (MDI; Metylen-bis-fenyldiisocyanat)

Grenseverdier (AN) (mg/m³): 0.05 mg/m³

Grenseverdier (AN) (ppm): 0.005 ppm

Grenseverdier (Korttidsverdi) (ppm): 0.01 ppm

Merknader (NO): A (Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt)

Regulatory reference: FOR-2018-08-21-1255

Switzerland - Occupational Exposure Limits

Local name: Xylène (tous les isomères) / Xylol (alle Isomere)

MAK (mg/m³): 435 mg/m³

MAK (ppm): 100 ppm

KZGW (mg/m³): 870 mg/m³

KZGW (ppm): 200 ppm

Critical toxicity: VRS, SNC, Yeux, Vertige / OAW, ZNS, Auge, Schwindel

Notation: R, B / H, B

Remark: INRS, NIOSH

Regulatory reference: www.suva.ch, 01.07.2019

Turkey - Occupational Exposure Limits

Local name: Ksilen

OEL TWA (mg/m³): 221 mg/m³ (karışım izomerleri, saf)

OEL TWA (ppm): 50 ppm (karışım izomerleri, saf)

OEL STEL (mg/m³): 442 mg/m³ (karışım izomerleri, saf)

OEL STEL (ppm): 100 ppm (karışım izomerleri, saf)

Comments: Deri

Regulatory reference: 12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete

USA - ACGIH - Occupational Exposure Limits

Local name: Methylene bisphenyl isocyanate (MDI)

ACGIH TWA (ppm): 0.005 ppm

ACGIH STEL (ppm): 150 ppm

Remark (ACGIH): TLV® Basis: Resp sens

Regulatory reference: ACGIH 2019

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. EN 14387

Personal protective equipment symbol(s):



Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Paste.

Colour : Various.

Odour : Characteristic.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.17 - 1.23 g/ml

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

9.2. Other information
VOC content : < 69 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Silane, trimethoxy[3-(oxiranylmethoxy)propyl]- (2530-83-8)

LC50 inhalation rat (mg/l): > 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Silane, trimethoxy[3-(oxiranylmethoxy)propyl]- (2530-83-8)

LC50 fish 1: 55 mg/l Test organisms (species): Cyprinus carpio

LOEC (chronic): > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic): >= 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport: Not applicable

Transport by sea: Not applicable

Air transport: Not applicable

Inland waterway transport: Not applicable

Rail transport: Not applicable

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

15.1.1. EU-Regulations

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The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable on	Entry title or description
56.	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4' -Methylenediphenyl diisocyanate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : < 69 g/l

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

ABM category : B(4) - low hazard for aquatic organisms.

SZW-lijst van kankerverwekkende stoffen : None of the components are listed.

SZW-lijst van mutagene stoffen : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: xylene is listed.

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4

Acute Tox. 4 (Inhalation) Acute toxicity (inhal.), Category 4

Carc. 2 Carcinogenicity, Category 2

Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

Flam. Liq. 3 Flammable liquids, Category 3

Resp. Sens. 1 Respiratory sensitisation, Category 1

Skin Irrit. 2 Skin corrosion/irritation, Category 2

Skin Sens. 1 Skin sensitisation, Category 1

STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2

STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

H351 Suspected of causing cancer.

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

ACE COATINGS SDS EU

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