

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

1.1. Product identifier

Mixture identification:

Trade name: MAPEFLEX PU 45 FT

Trade code: 906PG9990

UFI: XKA0-60EC-A00N-12Q5

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

Recommended use: Lepilo na osnovi poliuretana.

Uses advised against: Podatki niso na voljo

1.3. Details of the supplier of the safety data sheet

Company: Mapei Slovenia Doo

Kočevarjeva 2, Novo Mesto, Slovenia

Tel: +386-1-7865050/51 - Fax: +386-1-7865055

Responsible: mapei@mapei.si

1.4. Emergency telephone number

CORS – Center za obveščanje Republike Slovenije – Tel. 112

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Resp. Sens. 1 Lahko povzroči simptome alergije ali astme ali težave z dihanjem pri vdihavanju.

2 Navedena koncentracija izocianata je masni delež prostega monomera, izračunan glede na skupno maso zmesi.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Piktogrami in Opozorilna beseda



Nevarno

Opozorila o nevarnosti:

H334 Lahko povzroči simptome alergije ali astme ali težave z dihanjem pri vdihavanju.

Previdnostni nasveti:

P261 Ne vdihavati meglice/hlapov/razpršila.

P304+P340 PRI VDIHAVANJU: Prenesti osebo na svež zrak in jo pustiti v udobnem položaju, ki olajša dihanje.

P342+P311 Pri respiratornih simptomih: Pokličite CENTER ZA ZASTRUPITVE.

P501 Odstranite vsebino/posodo v skladu z veljavnimi predpisi.

Special Provisions:

EUH208 Vsebuje 4-toluensulfonil izocianat; tozil izocianat. Lahko povzroči alergijski odziv

EUH208 Vsebuje 4,4'-metilendifenil diizocianat. Lahko povzroči alergijski odziv

EUH204 Vsebuje izocianate. Lahko povzroči alergijski odziv.

EUH211 Pozor! Pri razprševanju lahko nastanejo nevarne vdihljive kapljice. Ne vdihavajte razpršila ali meglic.

Vsebuje:

difenilmetandiizocianat, izomeri in homologi

Special provisions according to Annex XVII of REACH and subsequent amendments:

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

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEFLEX PU 45 FT

Hazardous components within the meaning of the CLP regulation and related classification:

| Koncentracija (%) w/w) | Name | Ident. Numb. | Classification | Registration Number |
|----------------------------|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| $\geq 1 - < 2.5$ % | N,N-dibenzyliden polyoxypropylene diamine | CAS:136855-71-5, 524730-13-0 EC:679-523-7 | Skin Irrit. 2, H315 | |
| $\geq 0.49 - < 1$ % | 4-toluensulfonil izocianat; tozil izocianat | CAS:4083-64-1 EC:223-810-8 Index:615-012-00-7 | Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334, EUH014 Specific Concentration Limits: C $\geq 5\%$: Skin Irrit. 2 H315 C $\geq 5\%$: Eye Irrit. 2 H319 C $\geq 5\%$: STOT SE 3 H335 | 01-2119980050-47-XXXX |
| $\geq 0.49 - < 1$ % | difenilmetandiizocianat, izomeri in homologi | CAS:9016-87-9 EC:618-498-9 Index:615-005-00-9 | Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 2, H373 Carc. 2, H351 Specific Concentration Limits: 5% \leq C < 100%: Skin Irrit. 2 H315 5% \leq C < 100%: Eye Irrit. 2 H319 C $\geq 0.1\%$: Resp. Sens. 1,1A,1B H334 C $\geq 5\%$: STOT SE 3 H335 | |
| $\geq 0.025 - < 0.05$ % | 4,4'-metilendifenil diizocianat | CAS:101-68-8 EC:202-966-0 Index:615-005-00-9 | Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 2, H373 Carc. 2, H351 Specific Concentration Limits: 0.1% \leq C < 100%: Resp. Sens. 1 H334 5% \leq C < 100%: Skin Irrit. 2 H315 5% \leq C < 100%: Eye Irrit. 2 H319 5% \leq C < 100%: STOT SE 3 H335 | 01-2119457014-47-XXXX |
| $\geq 0.01 - < 0.016$ % | 2-metoksi-1-metiletil acetat | CAS:108-65-6 EC:203-603-9 Index:607-195-00-7 | Flam. Liq. 3, H226 | 01-2119475791-29-XXXX |
| $\geq 0.005 - < 0.01$ % | fosforjeva kislina.% | CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6 | Met. Corr. 1, H290 Eye Dam. 1, H318 Acute Tox. 4, H302 Skin Corr. 1B, H314 Specific Concentration Limits: C $\geq 25\%$: Skin Corr. 1B H314 10% \leq C < 25%: Skin Irrit. 2 H315 10% \leq C < 25%: Eye Irrit. 2 H319 | 01-2119485924-24-XXXX |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(glej odstavek 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Pri gorenju nastajajo težki dimni plini.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Ločeno zberite kontaminirano vodo, uporabljeno za gašenje požara. Ne je izpustiti v kanalizacijo.

Če je to varno izvedljivo, nepoškodovane vsebnike umaknite iz neposredno ogroženega območja.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

Glejte v točki 7 in 8 navedene zaščitne ukrepe.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Preprečite vstop v tla/podtalnico. Preprečite razlitje v površinske vode ali v kanalizacijo.

Zadržite izlito snov z zemljo ali peskom.

V primeru puščanja plina ali razlitja v vodne tokove, tla ali kanalizacijo obvestite pristojne organe.

6.3. Methods and material for containment and cleaning up

Za zbiranje primeren material: vpojni in organski materiali, pesek

Izperite z obilo vode.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preprečite stik s kožo in očmi, vdihavanje hlapov in megle.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Hranite stran od hrane, pijač in krme.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

| | OEL Type | Država | Occupational Exposure Limit |
|-------------------------------------------------------------------|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 4-toluensulfonil izocianat; tozil izocianat CAS: 4083-64-1 | SUVA | | Long Term: 0.02 mg/m ³ ; Short Term: 0.02 mg/m ³ |
| difenilmetandiizocianat, izomeri in homologi CAS: 9016-87-9 | ACGIH | | Long Term: 0.05 ppm |
| | SUVA | | Long Term: 0.02 mg/m ³ ; Short Term: 0.02 mg/m ³ |
| | DFG | NEMČIJA | Short Term: Ceiling - 0.05 mg/m ³ |
| | National | NEMČIJA | Long Term: 0.05 mg/m ³ |
| | National | SLOVENIJA | Long Term: 0.05 mg/m ³ ; Short Term: 0.05 mg/m ³ |
| 4,4'-metilendifenil diizocianat CAS: 101-68-8 | National | NORVEŠKA | Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.01 ppm A 4 |
| | SUVA | | Long Term: 0.02 mg/m ³ ; Short Term: 0.02 mg/m ³ |
| | National | ŠVEDSKA | Long Term: 0.03 mg/m ³ - 0.002 ppm; Short Term: Ceiling - 0.05 mg/m ³ - 0.005 ppm SWEDEN, Ceiling limit value |
| | NDS | | Long Term: 0.03 mg/m ³ |
| | NDSP | | Long Term: 0.09 mg/m ³ |
| | ACGIH | | Long Term: 0.005 ppm Resp sens |
| | National | POLJSKA | Long Term: 0.03 mg/m ³ ; Short Term: 0.09 mg/m ³ |
| | National | AVSTRIJA | Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.1 mg/m ³ - 0.01 ppm |
| | DFG | NEMČIJA | Short Term: Ceiling - 0.05 mg/m ³ |
| | ACGIH | | Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI)) |
| | National | ŠVEDSKA | Long Term: 0.03 mg/m ³ - 0.002 ppm |
| | National | FRANCIJA | Long Term: 0.1 mg/m ³ - 0.01 ppm; Short Term: 0.2 mg/m ³ - 0.02 ppm |
| | National | ŠPANIJA | Long Term: 0.052 mg/m ³ - 0.005 ppm |
| | National | DANSKA | Long Term: 0.05 mg/m ³ - 0.005 ppm |
| | National | NEMČIJA | Long Term: 0.05 mg/m ³ |
| | National | PORTUGALSKA | Long Term: 0.005 ppm A |
| | National | BELGIJA | Long Term: 0.052 mg/m ³ - 0.005 ppm |
| | NDS | POLJSKA | Long Term: 0.03 mg/m ³ |
| | NDSch | POLJSKA | Short Term: 0.09 mg/m ³ |
| | National | ČEŠKA | Long Term: 0.05 mg/m ³ |
| | National | MADŽARSKA | Long Term: 0.05 mg/m ³ ; Short Term: 0.05 mg/m ³ |

| | | |
|-----------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Malaysi a OEL | MALAZIJA | Long Term: 0.051 mg/m3 - 0.005 ppm |
| National | ESTONIJA | Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm |
| National | ČEŠKA | Short Term: Ceiling - 0.1 mg/m3 |
| National | SLOVAŠKA | Long Term: 0.002 mg/m3 |
| National | SLOVAŠKA | Long Term: 0.03 mg/m3 |
| National | SLOVENIJA | Long Term: 0.05 mg/m3; Short Term: 0.05 mg/m3 |
| National | ROMUNIJA | Short Term: 0.15 mg/m3 |
| National | LITVA | Long Term: 0.05 mg/m3 - 0.005 ppm |
| National | LITVA | Short Term: Ceiling - 0.1 mg/m3 - 0.01 ppm |
| ACGIH | | Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI)) |
| National | NORVEŠKA | Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.01 ppm |
| National | SLOVENIJA | Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.05 mg/m3 - 0.005 ppm |
| 2-metoksi-1-metiletil acetat CAS: 108-65-6 | DFG NEMČIJA | Short Term: Ceiling - 270 mg/m3 - 50 ppm |
| National | ŠVEDSKA | Long Term: 275 mg/m3 - 50 ppm |
| National | FRANCIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | ŠPANIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | GRČIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | DANSKA | Long Term: 275 mg/m3 - 50 ppm |
| National | FINSKA | Long Term: 270 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | NEMČIJA | Long Term: 270 mg/m3 - 50 ppm |
| National | PORTUGALSKA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | NORVEŠKA | Long Term: 270 mg/m3 - 50 ppm; Short Term: 337.5 mg/m3 - 75 ppm |
| National | BELGIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| NDS | POLJSKA | Long Term: 260 mg/m3 |
| NDSCh | POLJSKA | Short Term: 520 mg/m3 |
| CHE | ŠVICA | Short Term: 275 mg/m3 - 50 ppm |
| NDS | NIZOZEMSKA | Long Term: 550 mg/m3 |
| National | ČEŠKA | Long Term: 270 mg/m3 |
| National | MADŽARSKA | Long Term: 275 mg/m3; Short Term: 550 mg/m3 |
| National | ESTONIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | LATVIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | ČEŠKA | Short Term: Ceiling - 550 mg/m3 |
| National | SLOVAŠKA | Short Term: Ceiling - 550 mg/m3 |
| National | SLOVAŠKA | Long Term: 275 mg/m3 - 50 ppm |
| National | SLOVENIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | ZDRUŽENO KRALJESTVO | Long Term: 274 mg/m3 - 50 ppm; Short Term: 548 mg/m3 - 100 ppm |
| National | BOLGARIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | ROMUNIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| TUR | TURČIJA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| National | LITVA | Long Term: 250 mg/m3 - 50 ppm; Short Term: 400 mg/m3 - 75 ppm |
| National | HRVAŠKA | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm |
| EU | | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Behaviour Informativen Possibility of significant uptake through the skin; |
| EU | | Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Behaviour Informativen Possibility of significant uptake through the skin |
| fosforjeva kislina.% CAS: 7664-38-2 | DFG NEMČIJA | Short Term: Ceiling - 4 mg/m3 |

| | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ACGIH | Long Term: 1 mg/m ³ ; Short Term: 3 mg/m ³ eye, skin and upper respiratory tract irritation |
| National ŠVEDSKA | Long Term: 1 mg/m ³ |
| National FRANCIJA | Long Term: 1 mg/m ³ - 0.2 ppm; Short Term: 2 mg/m ³ - 0.5 ppm |
| National ŠPANIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National GRČIJA | Long Term: 1 mg/m ³ ; Short Term: 3 mg/m ³ |
| National DANSKA | Long Term: 1 mg/m ³ |
| National FINSKA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National NEMČIJA | Long Term: 2 mg/m ³ |
| National PORTUGALSKA | Long Term: 1 mg/m ³ ; Short Term: 3 mg/m ³ |
| National NORVEŠKA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National BELGIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| NDS POLJSKA | Long Term: 1 mg/m ³ |
| NDSCh POLJSKA | Short Term: 2 mg/m ³ |
| CHE ŠVICA | Short Term: 2 mg/m ³ |
| NDS NIZOZEMSKA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National ČEŠKA | Long Term: 1 mg/m ³ |
| National MADŽARSKA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| Malaysi a OEL | Long Term: 1 mg/m ³ |
| National ESTONIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National LATVIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National ČEŠKA | Short Term: Ceiling - 2 mg/m ³ |
| National SLOVAŠKA | Short Term: Ceiling - 2 mg/m ³ |
| National SLOVAŠKA | Long Term: 1 mg/m ³ |
| National SLOVENIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National ZDRUŽENO KRALJESTVO | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National BOLGARIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National ROMUNIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| TUR TURČIJA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National LITVA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| National HRVAŠKA | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ |
| EU | Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Behaviour Informativen |
| CHE ŠVICA | Short Term: 4 mg/m ³ |

Predicted No Effect Concentration (PNEC) values

4,4'-metilendifenil
diizocianat
CAS: 101-68-8

Način izpostavitve: Sladka voda; PNEC Limit: 1 mg/l

Način izpostavitve: Morska voda; PNEC Limit: 0.1 mg/l

Način izpostavitve: Tla (kmetijska); PNEC Limit: 1 mg/kg

Način izpostavitve: Mikroorganizmi v čistilnih napravah; PNEC Limit: 1 mg/l

Način izpostavitve: Intermittent release; PNEC Limit: 10 mg/l

2-metoksi-1-metiletil
acetat
CAS: 108-65-6

Način izpostavitve: Sladka voda; PNEC Limit: 0.635 mg/l

Način izpostavitve: Morska voda; PNEC Limit: 0.0635 mg/l

Način izpostavitve: Sladkovodni sedimenti; PNEC Limit: 3.29 mg/kg

Način izpostavitve: Morski sedimenti; PNEC Limit: 0.329 mg/kg

Način izpostavitve: Tla (kmetijska); PNEC Limit: 0.29 mg/kg

Način izpostavitve: Mikroorganizmi v čistilnih napravah; PNEC Limit: 100 mg/l

Način izpostavitve: Intermittent release; PNEC Limit: 6.35 mg/l

Derived No Effect Level (DNEL) values

4,4'-metilendifenil
diizocianat
CAS: 101-68-8

Exposure Route: Dermalno, človek; Exposure Frequency: Kratkotrajna, sistemski učinek
Worker Industry: 50 mg/kg

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Kratkotrajna, sistemski učinek
Worker Industry: 0.1 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Kratkotrajna, lokalni učinek
Worker Industry: 0.1 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Worker Industry: 0.05 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, lokalni učinek
Worker Industry: 0.05 mg/m³

Exposure Route: Dermalno, človek; Exposure Frequency: Kratkotrajna, sistemski učinek
Consumer: 25 mg/kg

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Kratkotrajna, sistemski učinek
Consumer: 0.05 mg/m³

Exposure Route: Oralno, človek; Exposure Frequency: Kratkotrajna, sistemski učinek
Consumer: 20 mg/kg

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Kratkotrajna, lokalni učinek
Consumer: 0.05 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Consumer: 0.025 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, lokalni učinek
Consumer: 0.025 mg/m³

Exposure Route: Dermalno, človek; Exposure Frequency: Kratkotrajna, lokalni učinek
Worker Industry: 28.7 mg/cm²; Consumer: 17.2 mg/cm²

2-metoksi-1-metiletil
acetat
CAS: 108-65-6

Exposure Route: Dermalno, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Worker Industry: 153.5 mg/kg; Consumer: 54.8 mg/kg

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Worker Industry: 275 mg/m³; Consumer: 33 mg/m³

Exposure Route: Oralno, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Consumer: 1.67 mg/kg

fosforjeva kislina.%
CAS: 7664-38-2

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Kratkotrajna, lokalni učinek
Worker Industry: 2 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, lokalni učinek
Worker Industry: 1 mg/m³; Consumer: 0.36 mg/m³

Exposure Route: Z vdihavanjem, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Worker Industry: 10.7 mg/m³; Consumer: 4.57 mg/m³

Exposure Route: Dermalno, človek; Exposure Frequency: Dolgotrajna, sistemski učinek
Consumer: 0.1 mg/kg

8.2. Exposure controls

Eye protection:

Za normalno uporabo se ne zahteva. Vedno delajte skladno z dobro delovno prakso.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Materiali primerni za zaščitne rokavice; EN ISO 374:

Polikloropren - CR: debeline \geq 0,5 mm; čas preboja \geq 480 min.

Nitril kavčuk - NBR: debeline \geq 0,35 mm; čas preboja \geq 480 min.

Butil kavčuk - IIR: debeline \geq 0,5 mm; čas preboja \geq 480 min.

Fluoriran kavčuk - FKM: debeline \geq 0,4 mm; čas preboja \geq 480 min.

Priporoča se uporaba neoprenskih rokavic (0,5 mm). Rokavice, ki naj se ne uporabljajo: na vodo neodporne rokavice.

Respiratory protection:

Osebnostna zaščitna oprema mora biti v skladu z ustreznimi CE standardi (kot npr. EN ISO 374 za rokavice in EN ISO 166 za očala), pravilno vzdrževana in shranjena. Pred nakupom se posvetujte z dobavitelji zaščitne opreme, preverite ustreznost opreme in upoštevajte podatke o uporabnikih (ergonomičnost opreme).

Zaščita dihal je treba uporabiti, kadar stopnje izpostavljenosti presegajo omejitve izpostavljenosti na delovnem mestu. Za informacije o izbiri in uporabi ustrezne opreme za zaščito dihal se nanašajo na ustrezne standarde EN, kot so EN 136, 140, 143, 149, 14387.

V primeru nezadostnega prezračevanja uporabljajte masko z ABEKP (EN 14387) filtrom

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Hygienic and Technical measures

Not available

Ustrezen tehnološki nadzor:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Fizično stanje: Tekoče

Appearance: prilepiti

Color: različno

Odour: značilno

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: Ni razpoložljivo

Lower and upper explosion limit: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not Relevant

Viscosity: 1,300,000.00 cPs

Kinematic viscosity: Not available

Solubility in water: nerešljiv

Solubility in oil: delno topen

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available

Relative density: 1.35 g/cm³

Vapour density: Not available

Particle characteristics:

Particle size: Not available

9.2. Other information

Miscibility: Not available

Conductivity: Not available

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toksikološki podatki zmesi:

a) akutna strupenost

Not classified

Based on available data, the classification criteria are not met

b) jedkost za kožo/draženje kože

Not classified

Based on available data, the classification criteria are not met

| | |
|-----------------------------------------------------------|------------------------------------------------------------------------------------|
| c) resne okvare oči/draženje | Not classified Based on available data, the classification criteria are not met |
| d) preobčutljivost pri vdihavanju in preobčutljivost kože | The product is classified: Resp. Sens. 1(H334) |
| e) mutagenost za zarodne celice | Not classified Based on available data, the classification criteria are not met |
| f) rakotvornost | Not classified Based on available data, the classification criteria are not met |
| g) strupenost za razmnoževanje | Not classified Based on available data, the classification criteria are not met |
| h) STOT – enkratna izpostavljenost | Not classified Based on available data, the classification criteria are not met |
| i) STOT – ponavljajoča se izpostavljenost | Not classified Based on available data, the classification criteria are not met |
| j) nevarnost pri vdihavanju | Not classified Based on available data, the classification criteria are not met |

Toxicological information on main components of the mixture:

| | | |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 4-toluensulfonil izocianat; a) akutna strupenost tozil izocianat | LC50 Vdihavanje Podgana > 640 ppm 1h LD50 Oralno Podgana = 2234 mg/kg | |
| difenilmetandiizocianat, a) akutna strupenost izomeri in homologi | LD50 Oralno Podgana > 10000 mg/kg LD50 Koža Zajec > 9400 mg/kg LC50 Vdihavanje prahu Podgana = 0.31 mg/l 4h LD50 Koža Zajec > 9.4 g/kg LC50 Vdihavanje Podgana = 490 mg/m ³ 4h LD50 Oralno Podgana = 49 g/kg g) strupenost za razmnoževanje NOAEL Vdihavanje Podgana = 12 mg/m ³ | |
| 4,4'-metilendifenil diizocianat | a) akutna strupenost LD50 Oralno Podgana > 2000 mg/kg LD50 Koža Zajec > 9400 mg/kg b) jedkost za kožo/draženje kože Draženje kože Koža Zajec Pozitivno d) preobčutljivost pri vdihavanju in preobčutljivost kože Preobčutljivost kože Koža Miš Pozitivno Vdihavanje lahko povzroči preobčutljivost Vdihavanje Pozitivno f) rakotvornost Rakotvornost Vdihavanje Podgana = 6 mg/m ³ g) strupenost za razmnoževanje NOAEL Vdihavanje Podgana = 12 mg/m ³ | 2 y 20 d |
| 2-metoksi-1-metiletil acetat | a) akutna strupenost LD50 Oralno Podgana > 5000 mg/kg LD50 Koža Zajec > 5 g/kg LD50 Oralno Podgana = 8532 mg/kg | |
| fosforjeva kislina.% | a) akutna strupenost LD50 Koža Zajec > 2000 mg/kg LC50 Vdihavanje Podgana > 3800 mg/m ³ 1h LD50 Oralno Podgana = 2600 mg/kg | |

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

| Sestavina | Ident. Numb. | Ecotox Data |
|----------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| difenilmetandiizocianat, izomeri in homologi | CAS: 9016-87-9 - EINECS: 618-498-9 - INDEX: 615-005-00-9 | a) akutna strupenost za vodno okolje : LC50 Riba > 1000 mg/l 96 a) akutna strupenost za vodno okolje : EC50 Daphnia > 1000 mg/l 24 b) kronična strupenost za vodno okolje : NOEC Daphnia > 10 mg/l - 21 d a) akutna strupenost za vodno okolje : EC50 Algae > 1640 mg/l 72 c) bakterijska strupenost : EC50 > 100 mg/l 3 d) strupenost za zemljo : NOEC > 1000 mg/kg - 14 d e) strupenost za rastline : NOEC > 1000 mg/kg - 14 d |
| 4,4'-metilendifenil diizocianat | CAS: 101-68-8 - EINECS: 202-966-0 - INDEX: 615-005-00-9 | a) akutna strupenost za vodno okolje : LC50 Riba > 1000 mg/l 96 a) akutna strupenost za vodno okolje : EC50 Daphnia > 1000 mg/l 24 b) kronična strupenost za vodno okolje : NOEC Daphnia > 10 mg/l - 21 d a) akutna strupenost za vodno okolje : EC50 Algae > 1640 mg/l 72 c) bakterijska strupenost : EC50 > 100 mg/l 3 d) strupenost za zemljo : NOEC > 1000 mg/kg - 14 d e) strupenost za rastline : NOEC > 1000 mg/kg - 14 d |
| 2-metoksi-1-metiletil acetat | CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7 | a) akutna strupenost za vodno okolje : EC50 Daphnia = 408 mg/l 48h a) akutna strupenost za vodno okolje : LC50 Riba = 130 mg/l 96h b) kronična strupenost za vodno okolje : NOEC Riba = 47.5 mg/l 14d b) kronična strupenost za vodno okolje : NOEC Daphnia ≥ 100 mg/l 21d b) kronična strupenost za vodno okolje : NOEC Algae ≥ 1000 mg/l |
| fosforjeva kislina.% | CAS: 7664-38-2 - EINECS: 231-633-2 - INDEX: 015-011-00-6 | a) akutna strupenost za vodno okolje : EC50 Daphnia > 100 mg/l 48h |

12.2. Persistence and degradability

Ni razpoložljivo

12.3. Bioaccumulative potential

Ni razpoložljivo

12.4. Mobility in soil

Ni razpoložljivo

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Kadar koli je mogoče, se je treba izogibati ali zmanjšati nastajanje odpadkov. Po možnosti obnovite.

Kode za odpadke (EWC) v skladu z Evropskim seznamom odpadkov (LoW) zaradi odvisnosti od uporabe ni mogoče določiti. Obrnite se in pošljite pooblaščenim službi za odstranjevanje odpadkov.

Načini odstranjevanja:

Odstranjevanje tega izdelka, raztopin, embalaže in drugih stranskih proizvodov bi moralo biti vedno v skladu z zahtevami zakonodaje o varstvu okolja in odstranjevanjem odpadkov ter vsemi zahtevami regionalnih lokalnih oblasti.

Odvečne izdelke in izdelke, ki jih ni mogoče reciklirati, zavrzite prek pooblaščenega izvajalca za odstranjevanje odpadkov.

Ne odlagajte odpadkov v kanalizacijo.

Nevarni odpadki: Yes

Odstranjevanje:

Ne dovolite vstopa v odtok ali vodotok.

Izdelek odstranite v skladu z vsemi zveznimi, državnimi in lokalnimi veljavnimi predpisi.

Če se ta izdelek meša z drugimi odpadki, izvirna koda odpadnega proizvoda morda ne bo več veljavna in dodelite ustrezno kodo.

Posode, onesnažene s proizvodom, zavrzite v skladu z lokalnimi ali nacionalnimi zakonskimi predpisi. Za dodatne informacije se obrnite na vaš lokalni organ za ravnanje z odpadki.

Posebni previdnostni ukrepi:

Ta material in njegovo posodo je treba odstraniti na varen način. Bodite previdni pri ravnanju z neobdelanimi praznimi posodami.

Izogibajte se raztrosu razlitnega materiala in odtokom ter stiku z zemljo, vodnimi potmi, otoki in odplakami.

V praznih posodah ali oblogah lahko ostanejo nekateri ostanki izdelka. Praznih posod ne uporabljajte več.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

ADR-Zgornja številka: NA

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

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

HOS (2004/42/EC) : N.A. g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Uredba (EU) št. 2015/1221 (7. ATP CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Uredba (EU) 2021/849 (17. ATP CLP)
Uredba (EU) 2022/692 (18. ATP CLP)

Provisions related to directive EU 2012/18 (Seveso III):

None

Omejitve, povezane z izdelkom ali vsebovanimi snovmi, v skladu s Prilogo XVII Uredbe (ES) 1907/2006 (REACH) in poznejše spremembe:

Restrictions related to the product: 3

Restrictions related to the substances contained: 30, 40, 74, 75

SVHC Substances:

Snovi SVHC, ki niso prisotne v koncentraciji $\geq 0,1\%$ (w/w)

Nacionalni predpisi

Lagerklasse (TRGS-510): 12 - Non-combustible liquids, that cannot be assigned to any of the aforementioned LGK

Nemški razred nevarnosti za vodo (WGK)

Razred 1: rahlo ogroža vodo.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

| Code | Description |
|--------|----------------------------------------------------------------------------------|
| EUH014 | Burno reagira z vodo. |
| H226 | Vnetljiva tekočina in hlapi. |
| H290 | Lahko je jedko za kovine. |
| H302 | Zdravju škodljivo pri zaužitju. |
| H314 | Povzročča hude opekline kože in poškodbe oči. |
| H315 | Povzročča draženje kože. |
| H317 | Lahko povzroči alergijski odziv kože. |
| H318 | Povzročča hude poškodbe oči. |
| H319 | Povzročča hudo draženje oči. |
| H332 | Zdravju škodljivo pri vdihavanju. |
| H334 | Lahko povzroči simptome alergije ali astme ali težave z dihanjem pri vdihavanju. |
| H335 | Lahko povzroči draženje dihalnih poti. |
| H351 | Sum povzročitve raka. |
| H373 | Lahko škoduje organom pri dolgotrajni ali ponavljajoči se izpostavljenosti. |

| Code | Hazard class and hazard category | Description |
|-------------|----------------------------------|------------------------------------------------------|
| 2.16/1 | Met. Corr. 1 | Substance or mixture corrosive to metals, Category 1 |
| 2.6/3 | Flam. Liq. 3 | Flammable liquid, Category 3 |
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.2/1B | Skin Corr. 1B | Skin corrosion, Category 1B |
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/1 | Eye Dam. 1 | Serious eye damage, Category 1 |
| 3.3/2 | Eye Irrit. 2 | Eye irritation, Category 2 |
| 3.4.1/1 | Resp. Sens. 1 | Respiratory Sensitisation, Category 1 |

| | | |
|---------------|---------------------|----------------------------------------------------------------|
| 3.4.1/1-1A-1B | Resp. Sens. 1,1A,1B | Respiratory Sensitisation, Category 1,1A,1B |
| 3.4.2/1 | Skin Sens. 1 | Skin Sensitisation, Category 1 |
| 3.6/2 | Carc. 2 | Carcinogenicity, Category 2 |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, Category 3 |
| 3.9/2 | STOT RE 2 | Specific target organ toxicity — repeated exposure, Category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure

Resp. Sens. 1, H334 Calculation method

Po potrebi so posebne določbe v zvezi z možnim usposabljanjem delavcev omenjene v oddelku 2. Vsako usposabljanje, povezano z varnostjo na delovnem mestu, mora v vsakem primeru sklicevati na oceno tveganja, ki jo mora izvajati uradnik za varnost podjetja ob upoštevanju posebnega Operacijski in okoljski pogoji, v katerih se uporabljajo izdelki.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information