

Safety Data Sheet

Skladno z Uredbo ES št. 1907/2006 (REACH), Člen 31, Priloga II, kot spremenjeno z Uredbo Komisije (EU) št. 2020/878

FACTORY COLOR PU-S (A)

Date of first edition: 18. 05. 2021

Safety Data Sheet dated 30/11/2023 version 5

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

1.1. Product identifier

Mixture identification:

Trade name: FACTORY COLOR PU-S (A)

Trade code: 001033002 -5

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

Recommended use: Premazi in barve, razredčila, sredstva za odstranjevanje barv

Uses advised against: Uporabe, ki niso priporočene

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel. +39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

112 v primeru zastrupitve v sil/ in case of emergency poisoning

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Flam. Liq. 3 Flammable liquid and vapour.

Skin Sens. 1A May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Warning

Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

Precautionary statements

P210 EU4\$P210

P280 Wear protective gloves and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

anhidrid maleinske kisline

Dir. 2004/42/EC (VOC directive)

Dvokomponentni premazi z reaktivnim delovan- jem za posebno končno uporabo kot so podi
EU limit value for this product (cat. A/j): 500 g/l
This product contains max 321.47 g/l VOC.

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

Nobena

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FACTORY COLOR PU-S (A)

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥5-<10 %	2-metoksi-1-metiletil acetat	CAS:108-65-6 EC:203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29
≥5-<10 %	n-butil acetat	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
≥0.5-<1 %	ksilen	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Eye Irrit. 2, H319, M-Chronic:1	01-2119488216-32
≥0.3-<0.5 %	Propylidynetrimethanol	CAS:77-99-6 EC:201-074-9	Repr. 2, H361	01-2119486799-10-XXXX
≥0.3-<0.5 %	4-morpholinecarbaldehyde	CAS:4394-85-8 EC:224-518-3	Skin Sens. 1B, H317	01-2119987993-12
<0.036 %	fosforjeva kislina	CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6	Met. Corr. 1, H290; Skin Corr. 1B, H314; Acute Tox. 4, H302 Specific Concentration Limits: C ≥ 25%: Skin Corr. 1B H314 10% ≤ C < 25%: Skin Irrit. 2 H315 10% ≤ C < 25%: Eye Irrit. 2 H319	01-2119485924-24
<0.01 %	anhidrid maleinske kisline	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Sens. 1A, H317, EUH071 Specific Concentration Limits: C ≥ 0.001%: Skin Sens. 1A H317	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediatley and dispose off 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 label hazardous.

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

N.A.

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

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.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

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

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

Instructions as regards storage premises:

Cool and adequately ventilated.

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)

2-metoksi-1-metiletil acetat

CAS: 108-65-6	EU	Long Term: 275 mg/m ³ - 50 ppm (8h); Short Term: 550 mg/m ³ - 100 ppm Notes: Skin
	NATION Avstrija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: Ceiling - 550 mg/m ³ - 100 ppm Notes: 5(Mow), 8x, MAK, H Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Ciper AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATION Češka AL	Long Term: 270 mg/m ³ ; Short Term: Ceiling - 550 mg/m ³ Notes: D, I Source: Nařízení vlády č. 361-2007 Sb
	NATION Nemčija AL	Long Term: 270 mg/m ³ - 50 ppm Notes: DFG, EU, Y, 1(I) Source: TRGS 900
	NATION Danska AL	Long Term: 275 mg/m ³ - 50 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021
	NATION Španija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: vía dérmica, VLI Source: LEP 2022
	NATION Estonija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: A, S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION Finska AL	Long Term: 270 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: iho Source: HTP-ARVOT 2020
	NATION Francija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
	NATION Grčija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Δ Source: ΦΕΚ 94/Α` 13.5.1999
	NATION Hrvatska AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: koža Source: 2000/39/EZ
	NATION Madžarska AL	Long Term: 275 mg/m ³ ; Short Term: 550 mg/m ³ Notes: EU1, N Source: 5/2020. (II. 6.) ITM rendelet
	NATION Irska AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
	NATION Italija AL	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
	NATION Litva AL	Long Term: 250 mg/m ³ - 50 ppm; Short Term: 400 mg/m ³ - 75 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATION AL	Luksemburg	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021
NATION AL	Latvija	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Āda Source: KN325P1
NATION AL	Malta	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: skin Source: S.L.424.24
NATION AL	Nizozemska	Long Term: 550 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A
NATION AL	Norveška	Long Term: 270 mg/m ³ - 50 ppm Notes: H E Source: FOR-2021-06-28-2248
NATION AL	Poljska	Long Term: 260 mg/m ³ ; Short Term: 520 mg/m ³ Notes: skóra Source: Dz.U. 2018 poz. 1286
NATION AL	Portugalska	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Cutânea Source: Decreto-Lei n.º 1/2021
NATION AL	Romunija	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION AL	Slovaška	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION AL	Slovenija	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: K, Y, EU1 Source: UL št. 72, 11. 5. 2021
NATION AL	Švedska	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: H Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 274 mg/m ³ - 50 ppm; Short Term: 548 mg/m ³ - 100 ppm Notes: Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 275 mg/m ³ - 50 ppm Notes: SSC, VRS / OAW Source: suva.ch/valeurs-limites

n-butyl acetat

CAS: 123-86-4

EU		Long Term: 241 mg/m ³ - 50 ppm (8h); Short Term: 723 mg/m ³ - 150 ppm
NATION AL	Avstrija	Long Term: 241 mg/m ³ - 50 ppm; Short Term: Ceiling - 480 mg/m ³ - 100 ppm Notes: Mow, MAK Source: GKV, BGBl. II Nr. 156/2021
NATION AL	Belgija	Long Term: 238 mg/m ³ - 50 ppm; Short Term: 712 mg/m ³ - 150 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATION AL	Bolgarija	Long Term: 241 mg/m ³ - 50 ppm; Short Term: 723 mg/m ³ - 150 ppm Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATION AL	Ciper	Long Term: 241 mg/m ³ - 50 ppm; Short Term: 723 mg/m ³ - 150 ppm Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
NATION AL	Češka	Long Term: 241 mg/m ³ ; Short Term: Ceiling - 723 mg/m ³ Source: Nařízení vlády č. 361-2007 Sb
NATION AL	Nemčija	Long Term: 300 mg/m ³ - 62 ppm Notes: AGS, Y, 2 (I) Source: TRGS 900
NATION AL	Danska	Long Term: 241 mg/m ³ - 50 ppm Notes: E

Source: BEK nr 2203 af 29/11/2021

NATION Španija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Notes: VLI Source: LEP 2022
NATION Estonija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm
NATION Finska AL	Long Term: 240 mg/m3 - 50 ppm; Short Term: 725 mg/m3 - 150 ppm Source: HTP-ARVOT 2020
NATION Francija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: INRS outil65, article R. 4412-149 du Code du travail
NATION Grčija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: Y.A. 72/2021 (ФЕК 163/A` 9.9.2021)
NATION Hrvatska AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: 2019/1831
NATION Mađarska AL	Long Term: 241 mg/m3; Short Term: 723 mg/m3 Notes: i, sz, EU7, N Source: 5/2020. (II. 6.) ITM rendelet
NATION Irska AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Notes: IOELV Source: 2021 Code of Practice
NATION Italija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: D.lgs. 81/2008, Allegato XXXVIII
NATION Luksemburg AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: Mémorial A n.226 du 22 mars 2021
NATION Latvija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: KN325P1
NATION Malta AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: S.L.424.24
NATION Nizozemska AL	Long Term: 241 mg/m3; Short Term: 723 mg/m3 Source: Arbeidsomstandighedenregeling - Lijst A
NATION Poljska AL	Long Term: 240 mg/m3; Short Term: 720 mg/m3 Source: Dz.U. 2018 poz. 1286
NATION Portugalska AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: Decreto-Lei n.º 1/2021
NATION Romunija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Notes: Dir. 2019/1.831 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Slovaška AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: 355 NARIADENIE VLADY z 10. mája 2006
NATION Slovenija AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Notes: Y, EU5 Source: UL št. 72, 11. 5. 2021
NATION Švedska AL	Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Source: AFS 2021:3
WEL- EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar Long Term: 240 mg/m3 - 50 ppm; Short Term: 720 mg/m3 - 150 ppm Notes: SSC, VR Yeux / AW Auge, INRS NIOSH Source: suva.ch/valeurs-limites

Titanium dioxide

CAS: 13463-67-7

ACGIH

Long Term: 2.5 mg/m3 (8h)
Notes: Finescale particles; R ; A3 - LRT irr, pneumoconiosis

NATION Avstrija AL	Long Term: 5 mg/m ³ ; Short Term: 10 mg/m ³ Notes: 60(Miw), 2x, MAK, A Source: BGBl. II Nr. 156/2021
NATION Belgija AL	Long Term: 10 mg/m ³ Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATION Bolgarija AL	Long Term: 10 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATION Nemčija AL	Long Term: 0.3 mg/m ³ ; Short Term: 2.4 mg/m ³ Notes: DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density; Source: TRGS900
NATION Danska AL	Long Term: 6 mg/m ³ Notes: K Source: BEK nr 2203 af 29/11/2021
NATION Španija AL	Long Term: 10 mg/m ³ Source: LEP 2022
NATION Estonija AL	Long Term: 5 mg/m ³ Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATION Francija AL	Long Term: 10 mg/m ³ Notes: Cancérogène de catégorie 2 Source: INRS outil65
NATION Grčija AL	Long Term: 10 mg/m ³ Notes: εισπν. Source: ΦΕΚ 94/Α` 13.5.1999
	Long Term: 5 mg/m ³ Notes: αναπν. Source: ΦΕΚ 94/Α` 13.5.1999
NATION Hrvatska AL	Long Term: 10 mg/m ³ Notes: U Source: NN 1/2021
	Long Term: 4 mg/m ³ Notes: R Source: NN 1/2021
NATION Irska AL	Long Term: 10 mg/m ³ Source: 2021 Code of Practice
	Long Term: 4 mg/m ³ Source: 2021 Code of Practice
NATION Litva AL	Long Term: 5 mg/m ³ Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATION Latvija AL	Long Term: 10 mg/m ³ Source: KN325P1
NATION Norveška AL	Long Term: 5 mg/m ³ Source: FOR-2021-06-28-2248
NATION Poljska AL	Long Term: 10 mg/m ³ Notes: 4), 7) Source: Dz.U. 2018 poz. 1286
NATION Romunija AL	Long Term: 10 mg/m ³ ; Short Term: 15 mg/m ³ Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Slovaška AL	Long Term: 5 mg/m ³ Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION Švedska AL	Long Term: 5 mg/m ³ Notes: 3 Source: AFS 2021:3
SUVA Švicar	Long Term: 3 mg/m ³ Notes: TWA mg/m ³ : (a), SSC, Formel / Formal, NIOSH Source: suva.ch/valeurs-limites

CAS: 1330-20-7	ACGIH	Long Term: 20 ppm (8h) Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EU	Long Term: 221 mg/m3 - 50 ppm (8h); Short Term: 442 mg/m3 - 100 ppm Notes: Skin
	NATION Avstrija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: 15(Miw), 4x, MAK Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Ciper AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATION Česka AL	Long Term: 200 mg/m3; Short Term: Ceiling - 400 mg/m3 Notes: B, D, I Source: Nařízení vlády č. 361-2007 Sb
	NATION Nemčija AL	Long Term: 220 mg/m3 - 50 ppm Notes: DFG, EU, H, 2(II) Source: TRGS 900
	NATION Danska AL	Long Term: 109 mg/m3 - 25 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021
	NATION Španija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: vía dérmica, VLB®, VLI Source: LEP 2022
	NATION Estonija AL	Long Term: 200 mg/m3 - 50 ppm; Short Term: 450 mg/m3 - 100 ppm Notes: A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION Finska AL	Long Term: 220 mg/m3 - 50 ppm; Short Term: 440 mg/m3 - 100 ppm Notes: iho Source: HTP-ARVOT 2020
	NATION Francija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
	NATION Grčija AL	Long Term: 435 mg/m3 - 100 ppm; Short Term: 650 mg/m3 - 150 ppm Notes: Δ Source: ΦΕΚ 94/Α` 13.5.1999
	NATION Hrvatska AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: koža Source: 2000/39/EZ
	NATION Madžarska AL	Long Term: 221 mg/m3; Short Term: 442 mg/m3 Notes: b, BEM, EU1, R Source: 5/2020. (II. 6.) ITM rendelet
	NATION Irska AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
	NATION Italija AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
	NATION Litva AL	Long Term: 200 mg/m3 - 50 ppm; Short Term: 450 mg/m3 - 100 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATION Luksemburg AL	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021

NATION AL	Latvija	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: Āda Source: KN325P1
NATION AL	Malta	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: skin Source: S.L.424.24
NATION AL	Nizozemska	Long Term: 210 mg/m ³ ; Short Term: 442 mg/m ³ Notes: H Source: Arbeidsomstandighedenregeling - Lijst A
NATION AL	Norveška	Long Term: 108 mg/m ³ - 25 ppm Notes: H E Source: FOR-2021-06-28-2248
NATION AL	Poljska	Long Term: 100 mg/m ³ ; Short Term: 200 mg/m ³ Notes: skóra Source: Dz.U. 2018 poz. 1286
NATION AL	Portugalska	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: Cutânea Source: Decreto-Lei n.º 1/2021
NATION AL	Romuniја	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION AL	Slovaška	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: K, 7) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION AL	Slovenija	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: K, BAT, EU1 Source: UL št. 72, 11. 5. 2021
NATION AL	Švedska	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Notes: H Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m ³ - 50 ppm; Short Term: 441 mg/m ³ - 100 ppm Notes: Sk, BMGV Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 220 mg/m ³ - 50 ppm; Short Term: 440 mg/m ³ - 100 ppm Notes: R/H, B, SNC / ZNS, NIOSH INRS Source: suva.ch/valeurs-limites

PCMR Talc (Mg₃H₂(SiO₃)₄)

CAS: 14807-96-6	ACGIH	Long Term: 2 mg/m ³ (8h) Notes: Containing no asbestos fibers\$ E,R, A4 - Pulm fibrosis, pulm func
NATION AL	Avstrija	Long Term: 2 mg/m ³ Notes: MAK, A Source: BGBl. II Nr. 156/2021
NATION AL	Belgija	Long Term: 2 mg/m ³ Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATION AL	Danska	Notes: 0, 3 fiber/cm ³ , K Source: BEK nr 2203 af 29/11/2021
NATION AL	Španija	Long Term: 2 mg/m ³ Notes: d, e Source: LEP 2022
NATION AL	Finska	Notes: 8h: 0.5 kuitua/cm ³ Source: HTP-ARVOT 2020
		Long Term: 2 mg/m ³ Notes: hengittyvä pöly Source: HTP-ARVOT 2020
		Long Term: 1 mg/m ³ Notes: alveolijae Source: HTP-ARVOT 2020

NATION Grčija AL	Long Term: 10 mg/m ³ Notes: εισπν. Source: ΦΕΚ 94/Α` 13.5.1999
	Long Term: 2 mg/m ³ Notes: αναπν. Source: ΦΕΚ 94/Α` 13.5.1999
NATION Hrvatska AL	Long Term: 1 mg/m ³ Notes: R Source: NN 1/2021
NATION Mađarska AL	Long Term: 2 mg/m ³ Notes: Respirable aerosol Source: 5/2020. (II. 6.) ITM
NATION Irska AL	Long Term: 10 mg/m ³ Source: 2021 Code of Practice
	Long Term: 0.8 mg/m ³ Source: 2021 Code of Practice
NATION Latvija AL	Long Term: 4 mg/m ³ Source: KN325P1
NATION Nizozemska AL	Long Term: 0.25 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A
NATION Poljska AL	Long Term: 4 mg/m ³ Notes: 4) Source: Dz.U. 2018 poz. 1286
	Long Term: 1 mg/m ³ Notes: 6), 18) Source: Dz.U. 2018 poz. 1286
NATION Romuniya AL	Long Term: 2 mg/m ³ Notes: fracțiune respirabilă Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Švedska AL	Long Term: 2 mg/m ³ Notes: 3 Source: AFS 2021:3
	Long Term: 1 mg/m ³ Notes: 3 Source: AFS 2021:3
SUVA Švicar	Long Term: 3 mg/m ³ Notes: TWA mg/m ³ : (a), SSC, Formel / Formal, OSHA Source: suva.ch/valeurs-limites

Propylidynetrimethanol

CAS: 77-99-6	NATION Litva AL	Short Term: Ceiling - 5 ppm Notes: Ū Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATION Švedska AL	Long Term: 5 mg/m ³ Source: AFS 2021:3

fosforjeva kislina

CAS: 7664-38-2	ACGIH	Long Term: 1 mg/m ³ (8h); Short Term: 3 mg/m ³ Notes: URT, eye and skin irr
	EU	Long Term: 1 mg/m ³ (8h); Short Term: 2 mg/m ³
	NATION Avstrija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: 15(Miw), 4x, MAK Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Ciper AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021

NATION Češka AL	Long Term: 1 mg/m ³ ; Short Term: Ceiling - 2 mg/m ³ Source: Nařízení vlády č. 361-2007 Sb
NATION Nemčija AL	Long Term: 2 mg/m ³ Notes: DFG, EU, AGS, Y, E, 2(I) Source: TRGS 900
NATION Danska AL	Long Term: 1 mg/m ³ Notes: E Source: BEK nr 2203 af 29/11/2021
NATION Španija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: VLI, s Source: LEP 2022
NATION Estonija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATION Finska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: HTP-ARVOT 2020
NATION Francija AL	Long Term: 1 mg/m ³ - 0.2 ppm; Short Term: 2 mg/m ³ - 0.5 ppm Source: INRS outil65, arrêté du 30-06-2004 modifié
NATION Grčija AL	Long Term: 1 mg/m ³ ; Short Term: 3 mg/m ³ Source: ΦΕΚ 94/A` 13.5.1999
NATION Hrvaška AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: 2000/39/EZ
NATION Madžarska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: m, EU1, N Source: 5/2020. (II. 6.) ITM rendelet
NATION Irska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: IOELV Source: 2021 Code of Practice
NATION Italija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: D.lgs. 81/2008, Allegato XXXVIII
NATION Litva AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATION Luksemburg AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Mémorial A n.226 du 22 mars 2021
NATION Latvija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: KN325P1
NATION Malta AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: S.L.424.24
NATION Nizozemska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A
NATION Norveška AL	Long Term: 1 mg/m ³ Notes: E Source: FOR-2021-06-28-2248
NATION Poljska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Dz.U. 2018 poz. 1286
NATION Portugalska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: Decreto-Lei n.º 1/2021
NATION Romunija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Slovaška AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION Slovenija AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Notes: Y, EU1, (I) Source: UL št. 72, 11. 5. 2021
NATION Švedska AL	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: AFS 2021:3

WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³ Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 2 mg/m ³ ; Short Term: 4 mg/m ³ Notes: TWA mg/m ³ : (i), SSC, Poumons VRS Peau Yeux / Lunge OAW Haut Auge, NIOSH OSHA Source: suva.ch/valeurs-limites

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CAS: 108-31-6	ACGIH	Long Term: 0.01 mg/m ³ (8h) Notes: IFV, DSEN, RSEN, A4 - Resp sens
	NATION Avstrija AL	Long Term: 0.4 mg/m ³ - 0.1 ppm; Short Term: Ceiling - 0.8 mg/m ³ - 0.2 ppm Notes: 5(Mow), 8x, MAK, Sah Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 0.01 mg/m ³ - 0.003 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 1 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Češka AL	Long Term: 1 mg/m ³ ; Short Term: Ceiling - 2 mg/m ³ Notes: I, S Source: Nařízení vlády č. 361-2007 Sb
	NATION Nemčija AL	Long Term: 0.081 mg/m ³ - 0.02 ppm Notes: DFG, Sah, Y, 11, 1;=2, 5=(I) Source: TRGS 900
	NATION Danska AL	Long Term: 0.4 mg/m ³ - 0.1 ppm Source: BEK nr 2203 af 29/11/2021
	NATION Španija AL	Long Term: 0.4 mg/m ³ - 0.1 ppm Notes: FIV, Sen Source: LEP 2022
	NATION Estonija AL	Long Term: 1.2 mg/m ³ - 0.3 ppm; Short Term: 2.5 mg/m ³ - 0.6 ppm Notes: S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION Finska AL	Long Term: 0.41 mg/m ³ - 0.1 ppm; Short Term: Ceiling - 0.81 mg/m ³ - 0.2 ppm Notes: kattoarvo Source: HTP-ARVOT 2020
	NATION Francija AL	Short Term: 1 mg/m ³ Notes: Risque d'allergie Source: INRS outil65
	NATION Grčija AL	Long Term: 1 mg/m ³ - 0.25 ppm Source: ФЕК 94/А` 13.5.1999
	NATION Hrvaška AL	Long Term: 0.41 mg/m ³ - 0.1 ppm; Short Term: 0.8 mg/m ³ - 0.2 ppm Notes: alergen (koža i udisanje) Source: NN 1/2021
	NATION Madžarska AL	Long Term: 0.08 mg/m ³ ; Short Term: 0.08 mg/m ³ Notes: m, sz, R+T Source: 5/2020. (II. 6.) ITM rendelet
	NATION Irska AL	Long Term: 0.01 ppm Notes: Sens., IFV Source: 2021 Code of Practice
	NATION Litva AL	Long Term: 1.2 mg/m ³ - 0.3 ppm; Short Term: 2.5 mg/m ³ - 0.6 ppm Notes: J Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATION Latvija AL	Long Term: 1 mg/m ³ Source: KN325P1
	NATION Norveška AL	Long Term: 0.8 mg/m ³ - 0.2 ppm Notes: A Source: FOR-2021-06-28-2248

NATION AL	Poljska	Long Term: 0.5 mg/m ³ ; Short Term: 1 mg/m ³ Notes: skóra Source: Dz.U. 2018 poz. 1286
NATION AL	Romunija	Long Term: 1 mg/m ³ - 0.25 ppm; Short Term: 3 mg/m ³ - 0.75 ppm Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION AL	Slovaška	Long Term: 0.41 mg/m ³ - 0.1 ppm Notes: S Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION AL	Slovenija	Long Term: 0.41 mg/m ³ - 0.1 ppm; Short Term: 0.41 mg/m ³ - 0.1 ppm Notes: Y Source: UL št. 72, 11. 5. 2021
NATION AL	Švedska	Long Term: 0.2 mg/m ³ - 0.05 ppm; Short Term: 0.4 mg/m ³ - 0.1 ppm Notes: M, S Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m ³ ; Short Term: 3 mg/m ³ Notes: Sen Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 0.4 mg/m ³ - 0.1 ppm; Short Term: 0.4 mg/m ³ - 0.1 ppm Notes: S, SSC, VR / AW, NIOSH OSHA, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen Source: suva.ch/valeurs-limites

Biological limit values

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CAS: 1330-20-7 Biological Indicator: Methyl hippuric acid in urine; Sampling Period: End of turn
Value: 2000 mg/L; Medium: Urine

Predicted No Effect Concentration (PNEC) values

2-metoksi-1-metiletil acetat

CAS: 108-65-6 Exposure Route: Fresh Water; PNEC Limit: 635 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6.35 mg/l
Exposure Route: Marine water; PNEC Limit: 63.5 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odpadkov; PNEC Limit: 100 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 329 µg/kg
Exposure Route: Zemlja; PNEC Limit: 290 µg/kg

n-butil acetat

CAS: 123-86-4 Exposure Route: Fresh Water; PNEC Limit: 180 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 360 mg/m³
Exposure Route: Marine water; PNEC Limit: 18 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odpadkov; PNEC Limit: 35.6 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 981 µg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 98.1 µg/kg
Exposure Route: Zemlja; PNEC Limit: 90.3 µg/kg

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CAS: 1330-20-7 Exposure Route: Fresh Water; PNEC Limit: 327 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 327 mg/m³
Exposure Route: Marine water; PNEC Limit: 327 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odpadkov; PNEC Limit: 6.58 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 12.46 mg/kg
Exposure Route: Zemlja; PNEC Limit: 2.31 mg/kg

4-morpholinecarbaldehyde

CAS: 4394-85-8 Exposure Route: Fresh Water; PNEC Limit: 500 mg/m³

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 5 mg/l
Exposure Route: Marine water; PNEC Limit: 50 mg/m³
Exposure Route: Marine water; PNEC Limit: 2000 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 2.69 mg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 269 µg/kg
Exposure Route: Zemlja; PNEC Limit: 244 µg/kg

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CAS: 108-31-6 Exposure Route: Fresh Water; PNEC Limit: 87.5 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 589.5 mg/m³
Exposure Route: Marine water; PNEC Limit: 8.75 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 24.53 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 197 µg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 19.7 µg/kg
Exposure Route: Zemlja; PNEC Limit: 25.75 µg/kg
Exposure Route: Secondary poisoning; PNEC Limit: 6.67 mg/kg

Derived No Effect Level (DNEL) values

2-metoksi-1-metiletil acetat

CAS: 108-65-6 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 275 mg/kg/day; Consumer: 33 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 550 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 33 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 796 mg/kg; Consumer: 320 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 36 mg/kg

n-butil acetat

CAS: 123-86-4 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 48 mg/kg/day; Consumer: 12 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 600 mg/kg/day; Consumer: 300 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 300 mg/kg/day; Consumer: 35.7 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 600 mg/kg/day; Consumer: 300 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 7 mg/kg; Consumer: 3.4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Professional: 11 mg/kg; Consumer: 6 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 2 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 2 mg/kg

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CAS: 1330-20-7 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 221 mg/kg/day; Consumer: 65.3 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 442 mg/kg/day; Consumer: 260 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 221 mg/kg/day; Consumer: 65.3 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 442 mg/kg/day; Consumer: 260 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 212 mg/kg; Consumer: 125 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 12.5 mg/kg

4-morpholinecarbaldehyde

CAS: 4394-85-8 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 98 mg/kg/day; Consumer: 29 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 1.7 mg/kg/day; Consumer: 840 µg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 14 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
Worker Professional: 0.293 mg/cm²; Consumer: 176 mg/cm²

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 8 mg/kg

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CAS: 7664-38-2 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 10.7 mg/kg/day; Consumer: 4.57 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 1 mg/kg/day; Consumer: 360 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 2 mg/kg/day

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 100 µg/kg

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CAS: 108-31-6 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 190 µg/m³; Consumer: 50 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 800 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 320 µg/m³; Consumer: 80 µg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 200 µg/kg; Consumer: 100 µg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Professional: 200 µg/kg; Consumer: 100 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 60 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 100 µg/kg

8.2. Exposure controls

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; BS EN 16523-1:2015+A1:2018: Level 6.

Butyl rubber - BR: thickness ≥0.40mm; breakthrough time ≥480min.

Nitrile rubber - NBR: thickness ≥0.40mm; breakthrough time ≥480min.

Respiratory protection:

N.A.

Thermal Hazards:

Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls:

Ne dovolite, da izdelek pride v kanalizacijo ali v površinske ali podzemne vode.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	V skladu z opisom izdelka
Odour:	characteristic
pH:	Not Relevant Notes: Ni uporabljivo, nevodna zmes
Kinematic viscosity:	N.A.
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	N.A.
Flash point:	24 °C (75 °F)
Lower and upper explosion limit:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	1.35 g/cm ³
Solubility in water:	Se ne meša
Solubility in oil:	Not Relevant Notes: Ni določeno, ker ni potrebno za CLP-razvrstitev
Partition coefficient n-octanol/water (log value):	Not Relevant Notes: Ni uporabljivo za zmesi
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Flammability:	The product is classified Flam. Liq. 3
Volatile Organic compounds - VOCs =	17.43%; 235.33g/L
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with oxidizing materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
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	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

2-metoksi-1-metiletil acetat

CAS: 108-65-6	a) acute toxicity	LD50 Oral Rat = 6190 mg/kg LD50 Skin Rabbit > 5000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative
	g) reproductive toxicity	No Observed Effect Level Rat = 3.69 mg/l

n-butil acetat

CAS: 123-86-4	a) acute toxicity	LD50 Oral Rat = 10760 mg/kg LC50 Inhalation of aerosol Rat = 0.74 mg/l 4h LD50 Skin Rabbit > 16 ml/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative
	c) serious eye damage/irritation	Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Negative
	f) carcinogenicity	Genotoxicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 750

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CAS: 1330-20-7	a) acute toxicity	LD50 Oral Rat = 3523 ml/kg LC50 Inhalation Vapour Rat = 29000 mg/m ³ 4h LD50 Skin Rabbit = 12126 mg/kg 24h
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 1h
	f) carcinogenicity	Genotoxicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 2171 mg/kg

4-morpholinecarbaldehyde

CAS: 4394-85-8	a) acute toxicity	LD50 Oral Rat > 7360 mg/kg LC50 Inhalation of aerosol Rat > 5.3 mg/l 4h LD50 Skin Rabbit > 18400 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative

- | | |
|--------------------------------------|--|
| c) serious eye damage/irritation | Eye Irritant Rabbit No |
| d) respiratory or skin sensitisation | Skin Sensitization Positive |
| g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 1000 mg/kg |

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- | | | |
|----------------|----------------------------------|---|
| CAS: 7664-38-2 | a) acute toxicity | LD50 Oral Rat = 2600 mg/kg
LC50 Inhalation Rat = 3846 mg/m3 1h |
| | b) skin corrosion/irritation | Skin Corrosive Rabbit Positive |
| | c) serious eye damage/irritation | Eye Irritant Rabbit Yes |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat >= 500 mg/kg |

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- | | | |
|---------------|--------------------------------------|---|
| CAS: 108-31-6 | a) acute toxicity | LD50 Oral Rat = 1090 mg/kg
LC50 Inhalation Rat > 4.35 mg/l 1h
LD50 Skin Rabbit = 2620 mg/kg |
| | b) skin corrosion/irritation | Skin Corrosive Rabbit Positive 4h |
| | c) serious eye damage/irritation | Eye Corrosive Rabbit Positive |
| | d) respiratory or skin sensitisation | Skin Sensitization Positive

Respiratory Sensitization Rat Positive |
| | f) carcinogenicity | Genotoxicity Rat Negative 6h
Carcinogenicity Negative |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 55 mg/kg |

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 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.

No data available for the product

List of Eco-Toxicological properties of the components

2-metoksi-1-metiletil acetat

- | | | |
|---------------|------------------------------|---|
| CAS: 108-65-6 | a) Aquatic acute toxicity: | LC50 Fish Oncorhynchus mykiss = 130 mg/L 96h |
| | b) Aquatic chronic toxicity: | NOEC Fish Oryzias latipes = 47.5 mg/L |
| | a) Aquatic acute toxicity: | LC50 Daphnia Daphnia magna = 408 mg/L 48h |
| | b) Aquatic chronic toxicity: | NOEC Daphnia Daphnia magna > 100 mg/L |
| | a) Aquatic acute toxicity: | NOEC Algae Selenastrum capricornutum >= 1000 mg/L |

n-butyl acetat

- | | | |
|---------------|------------------------------|---|
| CAS: 123-86-4 | a) Aquatic acute toxicity: | LC50 Fish Pimephales promelas = 18 mg/L 96h |
| | a) Aquatic acute toxicity: | LC50 Daphnia Daphnia magna = 44 mg/L 48h |
| | b) Aquatic chronic toxicity: | NOEC Daphnia Daphnia magna = 23 mg/L |
| | a) Aquatic acute toxicity: | EC50 Algae Desmodesmus subspicatus = 397 mg/L 72h |
| | a) Aquatic acute toxicity: | EC50 Tetrahymena pyriformis = 356 mg/L |

ksilen

- | | | |
|----------------|------------------------------|--|
| CAS: 1330-20-7 | a) Aquatic acute toxicity: | LC50 Fish freshwater fish = 2.6 mg/L 96h |
| | b) Aquatic chronic toxicity: | NOEC Fish freshwater fish = 1.3 mg/L |
| | a) Aquatic acute toxicity: | LC50 Daphnia Daphnia magna = 1 mg/L 24h |

- b) Aquatic chronic toxicity: NOEC Daphnia Ceriodaphnia dubia = 0.96 mg/L
- a) Aquatic acute toxicity: EC50 Algae freshwater algae = 1.3 mg/L 48h
- a) Aquatic acute toxicity: EC50 microorganisms = 96 mg/L
- d) Terrestrial toxicity: NOEC Worm earthworms = 16 mg/kg
- e) Plant toxicity: LC50 terrestrial plants = 1 mg/kg

4-morpholinecarbaldehyde

- CAS: 4394-85-8
- a) Aquatic acute toxicity: LC50 Fish Leuciscus idus > 500 mg/L 96h
 - a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 500 mg/L 48h
 - a) Aquatic acute toxicity: EC50 Algae German Industrial Standard guideline DIN 38412, part 9 = 23.8 g/L 72h
 - c) Bacteria toxicity: EC10 Pseudomonas putida > 2000 mg/L

fosforjeva kislina

- CAS: 7664-38-2
- a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna > 100 mg/L 48h
 - a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus > 100 mg/L 72h
 - a) Aquatic acute toxicity: EC50 Sludge activated sludge > 1000 mg/L 3h

anhidrid maleinske kisline

- CAS: 108-31-6
- a) Aquatic acute toxicity: LC50 Fish rainbow trout = 75 mg/L 96h
 - a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 42.81 mg/L 48h
 - b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 10 mg/L
 - a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 74.32 mg/L
 - a) Aquatic acute toxicity: NOEC Sludge activated sludge = 44.6 mg/L

12.2. Persistence and degradability

2-metoksi-1-metiletil acetat

CAS: 108-65-6 Readily biodegradable Test: Dissolved organic carbon
Notes: OECD GL 301E

n-butil acetat

CAS: 123-86-4 Readily biodegradable Value: 83
Notes: %; OECD 301 D

ksilen

CAS: 1330-20-7 Readily biodegradable

4-morpholinecarbaldehyde

CAS: 4394-85-8 Readily biodegradable Test: Dissolved organic carbon; Value: 96
Notes: %; OECD 301 A

anhidrid maleinske kisline

CAS: 108-31-6 Readily biodegradable Value: 90
Notes: 28days

12.3. Bioaccumulative potential

n-butil acetat

CAS: 123-86-4 Bioaccumulative Test: BCF - Bioconcentration factor

ksilen

CAS: 1330-20-7 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 25.9

4-morpholinecarbaldehyde

CAS: 4394-85-8 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 1.9

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

Ni sestavine PBT/vPvB.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Če je mogoče, predelajte. Pošljite v usposobljena odlagališča ali v zažig pod kontroliranimi pogoji. Ravnajte se po lokalnih in državnih normah. Odstranjevanje z izpustom v odpadne vode ni dovoljeno

Odstranjeni izdelek mora biti v skladu z Uredbo (EU) 1357/2014 razvrščen kot nevaren odpadek

Šifre odpadkov v skladu z Evropski seznam odpadkov (ESO) ni mogoče določiti zaradi odvisnosti od uporabe. Obrnite se na pooblaščen službo za odstranjevanje odpadkov.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information**14.1. UN number or ID number**

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2024/2865
- Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/2564 (ATP 22 CLP)

Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Regulation (EC) nr 648/2004 (Detergents).

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, 40

Restrictions related to the substances contained: 75

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

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P5c	5000	50000

Explosives precursors – Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

NWG: Not hazardous for water

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

- Volatile Organic compounds - VOCs = 23.81 %

Volatile Organic compounds - VOCs = 321.47 g/L
- FACTORY COLOR PU-S (A) (not ready to use)

Volatile Organic compounds - VOCs = 17.43 %

Volatile Organic compounds - VOCs = 235.33 g/L

15.2. Chemical safety assessment

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

Substances for which a Chemical Safety Assessment has been carried out:

2-metoksi-1-metiletil acetat

n-butil acetat

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
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
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1A, H317	Calculation method

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 MSDS 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: Keep Away From Heat
 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:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid 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 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information

Scenarij izpostavljenosti

2-methoxy-1-methylethyl acetate

Scenarij izpostavljenosti, 08/06/2021

Identiteta snovi	
	2-methoxy-1-methylethyl acetate
Št.CAS	108-65-6
Št. INDEKSA	607-195-00-7
Št.EINECS	203-603-9
Registracijska številka	01-2119475791-29

Kazalo

1. ES 1

1. ES 1

1.1 NASLOVNI ODSTAVEK

Ime scenarija izpostavljenosti	Gospodarska uporaba premazov in barv s pleskanjem in valjanjem
Datum - revizija	29/04/2021 - 1.0
Glavna uporabniška skupina	Poklicne uporabe
Sektor(-ji) uporabe	Poklicne uporabe (SU22)
Kategorije izdelkov	Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)

Scenarij, ki prispeva Okolje

CS1	ERC8a - ERC8d
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Scenarij, ki prispeva Delojemalec

CS2 Velike površine - Nanašanje z valjem in čopičem	PROC10
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1.2 Pogoji uporabe z vplivom na izpostavitve

1.2. CS1: Scenarij, ki prispeva Okolje (ERC8a, ERC8d)

Kategorije sproščanja v okolje	Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, notranja) - Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, zunanja) (ERC8a, ERC8d)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekoč

Koncentracija substance v produktu:

Obsega koncentracije do 100 %

Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)

Uporabljene količine:

Dnevna količina na lokacijo = 5000 kg

Tip izločanja: Kontinuirano izločanje

Dnevi emisij: 365 dnevi na leto

Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami

Vrsta čistilne naprave (STP):

Komunalna STP čistilna naprava

Voda - najmanjša učinkovitost: = 87.3 %

Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)

Ravnanje z odpadki

Zbirajte odpadke in jih odstranite skladno s krajevnimi predpisi.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja

Krajevni faktor razredčenja morske vode:: 100

Krajevni faktor razredčenja sladke vode: 10

Dodaten nasvet iz primerov dobre prakse. Obveznosti v skladu s 4. odstavkom 37. člena Uredbe REACH ne veljajo.

Dodaten nasvet iz primerov dobre prakse:

Na lokaciji mora biti z načrtom za postopke v primeru razlitja zagotovljeno, da so bili sprejeti primerni zaščitni ukrepi za zmanjšanje učinkov občasnih izpustov na minimum.

1.2. CS2: Scenarij, ki prispeva Delojemalec: Velike površine - Nanašanje z valjem in čopičem (PROC10)

Kategorije procesov	Nanašanje z valjčkom ali čopičem (PROC10)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekoč

Koncentracija substance v produktu:

Obsega koncentracije do 100 %

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost**Uporabljene količine:**

Dnevna količina na lokacijo = 5000 kg

Trajanje:

Trajanje izpostavljenosti = 8 h/dan

Frekvenca:

Pogostost uporabe = 365 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi**Tehnični in organizacijski ukrepi**

Zagotovite redno preverjanje in vzdrževanje nadzornih ukrepov.
Izvajajte v prezračevani kabini ali ohišju z odsesavanjem.

Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja**Osebna zaščitna oprema**

Nosite respirator skladno z EN140.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Zajema notranjo in zunanjo uporabo

Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.**1.3 Ocena izpostavljenosti in sklicevanje na njen vir****1.3. CS1: Scenarij, ki prispeva Okolje (ERC8a, ERC8d)**

cilj zaščite	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
sladka voda	= 0.003 mg/L	ECETOC TRA environment v3	= 0.004
sladkovodne usedline	= 0.014 mg/kg KW	ECETOC TRA environment v3	= 0.004
morska voda	= 0.0004 mg/L	ECETOC TRA environment v3	= 0.007
morske usedline	= 0.002 mg/kg KW	ECETOC TRA environment v3	= 0.007
tla	= 0.001 mg/kg KW	ECETOC TRA environment v3	= 0.004

1.3. CS2: Scenarij, ki prispeva Delojemalec: Velike površine - Nanašanje z valjem in čopičem (PROC10)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, sistemsko, dolgoročno	= 137.71 mg/m ³	ECETOC TRA delojemalec v3	= 0.5
stik s kožo, sistemsko, dolgoročno	= 13.71 mg/kg bw/dan	ECETOC TRA delojemalec v3	0.18

1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve**Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:**

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven

upravljanja s tveganji.

Scenarij izpostavljenosti

N-butyl acetate

Scenarij izpostavljenosti, 13/07/2021

Identiteta snovi	
	N-butyl acetate
št.CAS	123-86-4
Št. INDEKSA	607-025-00-1
št.EINECS	204-658-1
Registracijska številka	01-2119485493-29

Kazalo

1. **ES 1** Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)

1. ES 1 Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)	
1.1 NASLOVNI ODSTAVEK	
Ime scenarija izpostavljenosti	Gospodarska uporaba premazov in barv
Datum - revizija	14/05/2021 - 1.0
Stopnja življenjskega cikla	Široko razširjena uporaba, ki jo izvajajo poklicni delavci
Glavna uporabniška skupina	Poklicne uporabe
Sektor(-ji) uporabe	Poklicne uporabe (SU22)
Kategorije izdelkov	Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)
Scenarij, ki prispeva Okolje	
CS1	ERC8a
Scenarij, ki prispeva Delojemalec	
CS2 Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem	PROC11
CS3 Čiščenje in vzdrževanje naprave - Nanašanje z valjem in čopičem - Prenosi materiala	PROC8a - PROC10
1.2 Pogoji uporabe z vplivom na izpostavitve	
1.2. CS1: Scenarij, ki prispeva Okolje (ERC8a)	
Kategorije sproščanja v okolje	Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, notranja) (ERC8a)
<i>Lastnosti izdelka (proizvoda)</i>	
Fizikalna oblika izdelka: Tekoč	
Koncentracija substance v produktu: Obsega delež snovi v izdelku do 100 %.	
<i>Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)</i>	
Uporabljene količine: Poraba = 4000 ton/letno	
<i>Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami</i>	
Vrsta čistilne naprave (STP): Komunalna STP čistilna naprava Voda - najmanjša učinkovitost: = 89.1 %	
<i>Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja</i>	
Krajevni faktor razredčenja morske vode:: 100 Krajevni faktor razredčenja sladke vode: 10 Pretok sprejemnih površinskih voda: 18000 m3/dan Zajema notranjo in zunanjo uporabo	
1.2. CS2: Scenarij, ki prispeva Delojemalec: Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem (PROC11)	
Kategorije procesov	Neindustrijsko brizganje (PROC11)
<i>Lastnosti izdelka (proizvoda)</i>	
Fizikalna oblika izdelka: Tekoč	
Parni tlak: < 10000 Pa	

Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 100 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost**Trajanje:**

Obsega dnevno izpostavljenost do 8 ure

Tehnični in organizacijski pogoji in ukrepi**Tehnični in organizacijski ukrepi**

Zaprti sistemi

Odperti sistemi

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

Dodaten nasvet iz primerov dobre prakse. Obveznosti v skladu s 4. odstavkom 37. člena Uredbe REACH ne veljajo.

Dodaten nasvet iz primerov dobre prakse:

Nosite ustrezno opremo za zaščito dihal.

1.2. CS3: Scenarij, ki prispeva Delojemalec: Čiščenje in vzdrževanje naprave - Nanašanje z valjem in čopičem - Prenosi materiala (PROC8a, PROC10)**Kategorije procesov**

Prenos snovi ali zmesi (polnjenje in praznjenje) na nenamenskih napravah - Nanašanje z valjčkom ali čopičem (PROC8a, PROC10)

Lastnosti izdelka (proizvoda)**Fizikalna oblika izdelka:**

Tekoč

Parni tlak:

< 10000 Pa

Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 25 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost**Trajanje:**

Obsega dnevno izpostavljenost do 8 ure

Tehnični in organizacijski pogoji in ukrepi**Tehnični in organizacijski ukrepi**

Zaprti sistemi

Odperti sistemi

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

1.3 Ocena izpostavljenosti in sklicevanje na njen vir**1.3. CS1: Scenarij, ki prispeva Okolje (ERC8a)**

Pot izločanja	Stopnja sproščanja	Metoda ocene izločanja
N/A	N/A	ESVOC SPERC 8.3b.v1

1.3. CS2: Scenarij, ki prispeva Delojemalec: Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem (PROC11)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 242 mg/m ³	ECETOC TRA	= 0.504

1.3. CS3: Scenarij, ki prispeva Delojemalec: Čiščenje in vzdrževanje naprave - Nanašanje z valjem in čopičem - Prenosi materiala (PROC8a, PROC10)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 290.4 mg/m ³	ECETOC TRA delojemalec v3	= 0.605

1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve

Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven upravljanja s tveganji.

Safety Data Sheet

Skladno z Uredbo ES št. 1907/2006 (REACH), Člen 31, Priloga II, kot spremenjeno z Uredbo Komisije (EU) št. 2020/878

FACTORY COLOR PU-S (B)

Date of first edition: 10. 05. 2021

Safety Data Sheet dated 30/11/2023 version 5

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

1.1. Product identifier

Mixture identification:

Trade name: FACTORY COLOR PU-S (B)

Trade code: 05032021

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

Recommended use: trdilec

Uses advised against: Uporabe, ki niso priporočene

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel. +39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

112 v primeru zastrupitve v sil/ in case of emergency poisoning

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Flam. Liq. 3	Flammable liquid and vapour.
Acute Tox. 4	Harmful if inhaled.
Skin Sens. 1	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Warning

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

P210	EU4\$P210
P260	Do not breathe vapours.
P280	Wear protective gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.
P501	Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains 4-izocianatosulfoniltoluen. May produce an allergic reaction.

Contains

Hexamethylene diisocyanate, oligomers

Dir. 2004/42/EC (VOC directive)

Dvokomponentni premazi z reaktivnim delovan- jem za posebno končno uporabo kot so podi
EU limit value for this product (cat. A/j): 500 g/l
This product contains max 321.47 g/l VOC.

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 >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FACTORY COLOR PU-S (B)

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥50-<70 %	Hexamethylene diisocyanate, oligomers	CAS:28182-81-2 EC:500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	01-2119485796-17
≥10-<20 %	2-metoksi-1-metiletil acetat	CAS:108-65-6 EC:203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29
≥0.5-<1 %	4-izocianatosulfoniltoluen	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 ≥ 5%: Eye Irrit. 2 H319 C ≥ 5%: STOT SE 3 H335 C ≥ 5%: Skin Irrit. 2 H315	01-2119980050-47
≥0.05-<0.1 %	Heksametilen-1,6-diizocianat	CAS:822-06-0 EC:212-485-8	Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT SE 3, H335	01-2119457571-37

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediatley and dispose off 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 label hazardous.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.
In case of inhalation, consult a doctor immediately and show him packing or label.

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

N.A.

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

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.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

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

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

Instructions as regards storage premises:

Cool and adequately ventilated.

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)

2-metoksi-1-metiletil acetat

CAS: 108-65-6	EU	Long Term: 275 mg/m3 - 50 ppm (8h); Short Term: 550 mg/m3 - 100 ppm Notes: Skin
	NATION Avstrija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: Ceiling - 550 mg/m3 - 100 ppm Notes: 5(Mow), 8x, MAK, H Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Ciper AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATION Česka AL	Long Term: 270 mg/m3; Short Term: Ceiling - 550 mg/m3 Notes: D, I Source: Nařízení vlády č. 361-2007 Sb
	NATION Nemčija AL	Long Term: 270 mg/m3 - 50 ppm Notes: DFG, EU, Y, 1(I) Source: TRGS 900
	NATION Danska AL	Long Term: 275 mg/m3 - 50 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021
	NATION Španija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: vía dérmica, VLI Source: LEP 2022
	NATION Estonija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: A, S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION Finska AL	Long Term: 270 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: iho Source: HTP-ARVOT 2020
	NATION Francija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
	NATION Grčija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Δ Source: ΦΕΚ 94/A` 13.5.1999
	NATION Hrvatska AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: koža Source: 2000/39/EZ
	NATION Madžarska AL	Long Term: 275 mg/m3; Short Term: 550 mg/m3 Notes: EU1, N Source: 5/2020. (II. 6.) ITM rendelet
	NATION Irska AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
	NATION Italija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
	NATION Litva AL	Long Term: 250 mg/m3 - 50 ppm; Short Term: 400 mg/m3 - 75 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATION Luksemburg AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021
	NATION Latvija AL	Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Notes: Āda Source: KN325P1

NATION Malta AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: skin Source: S.L.424.24
NATION Nizozemska AL		Long Term: 550 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A
NATION Norveška AL		Long Term: 270 mg/m ³ - 50 ppm Notes: H E Source: FOR-2021-06-28-2248
NATION Poljska AL		Long Term: 260 mg/m ³ ; Short Term: 520 mg/m ³ Notes: skóra Source: Dz.U. 2018 poz. 1286
NATION Portugalska AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: Cutânea Source: Decreto-Lei n.º 1/2021
NATION Romunija AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Slovaška AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION Slovenija AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: K, Y, EU1 Source: UL št. 72, 11. 5. 2021
NATION Švedska AL		Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Notes: H Source: AFS 2021:3
WEL- EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 274 mg/m ³ - 50 ppm; Short Term: 548 mg/m ³ - 100 ppm Notes: Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 275 mg/m ³ - 50 ppm Notes: SSC, VRS / OAW Source: suva.ch/valeurs-limites

Heksameten-1,6-diizocianat

CAS: 822-06-0	ACGIH	Long Term: 0.005 ppm (8h) Notes: URT irr, resp sens
	EU	Long Term: 0.006 mg/m ³ (8h); Short Term: 0.012 mg/m ³ Notes: Skin; Dermal and respiratory sensitisation
NATION Avstrija AL		Long Term: 0.035 mg/m ³ - 0.005 ppm; Short Term: Ceiling - 0.035 mg/m ³ - 0.005 ppm Notes: Mow, MAK, Sah Source: BGBl. II Nr. 156/2021
NATION Belgija AL		Long Term: 0.034 mg/m ³ - 0.005 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATION Bolgarija AL		Long Term: 0.1 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATION Češka AL		Long Term: 0.035 mg/m ³ ; Short Term: Ceiling - 0.07 mg/m ³ Notes: I, S Source: Nařízení vlády č. 361-2007 Sb
NATION Nemčija AL		Long Term: 0.035 mg/m ³ - 0.005 ppm Notes: DFG, 11, 12, Sa, 1;=2=(I) Source: TRGS 900
NATION Danska AL		Long Term: 0.035 mg/m ³ - 0.005 ppm Source: BEK nr 2203 af 29/11/2021
NATION Španija AL		Long Term: 0.035 mg/m ³ - 0.005 ppm Notes: Sen Source: LEP 2022

NATION Estonija AL	Long Term: 0.03 mg/m ³ - 0.005 ppm; Short Term: 0.07 mg/m ³ - 0.01 ppm Notes: S, * Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATION Francija AL	Long Term: 0.075 mg/m ³ - 0.01 ppm; Short Term: 0.15 mg/m ³ - 0.02 ppm Notes: Risques d'allergie respiratoire. La VLEP CT est définie sur une période de référence de 5 minute. Source: INRS outil65
NATION Madžarska AL	Long Term: 0.035 mg/m ³ ; Short Term: 0.035 mg/m ³ Notes: i, sz, T Source: 5/2020. (II. 6.) ITM rendelet
NATION Irska AL	Long Term: 0.005 ppm Notes: Sens. Source: 2021 Code of Practice
NATION Italija AL	Long Term: 1 mg/m ³ (8h) Source: D.Lgs81/2008
NATION Litva AL	Long Term: 0.03 mg/m ³ - 0.005 ppm; Short Term: Ceiling - 0.07 mg/m ³ - 0.01 ppm Notes: Ū J, 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). Tačiau skirtingų medžiagų RD, išreikšti mg/m ³ , yra skirtingi. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATION Latvija AL	Long Term: 0.05 mg/m ³ Source: KN325P1
NATION Norveška AL	Long Term: 0.035 mg/m ³ - 0.005 ppm Notes: A 4 Source: FOR-2021-06-28-2248
NATION Poljska AL	Long Term: 0.04 mg/m ³ ; Short Term: 0.08 mg/m ³ Notes: skóra Source: Dz.U. 2018 poz. 1286
NATION Romunija AL	Long Term: 0.05 mg/m ³ - 0.007 ppm; Short Term: 1 mg/m ³ - 0.14 ppm Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATION Slovaška AL	Long Term: 0.035 mg/m ³ - 0.005 ppm Notes: S Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATION Slovenija AL	Long Term: 0.035 mg/m ³ - 0.005 ppm; Short Term: 0.035 mg/m ³ - 0.005 ppm Notes: BAT Source: UL št. 72, 11. 5. 2021
NATION Švedska AL	Long Term: 0.02 mg/m ³ - 0.002 ppm; Short Term: 0.03 mg/m ³ - 0.005 ppm Notes: M, S, 2 Source: AFS 2021:3
SUVA Švicar	Notes: B, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen Source: suva.ch/valeurs-limites

Predicted No Effect Concentration (PNEC) values

2-metoksi-1-metiletil acetat

CAS: 108-65-6 Exposure Route: Fresh Water; PNEC Limit: 635 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6.35 mg/l
Exposure Route: Marine water; PNEC Limit: 63.5 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odpad; PNEC Limit: 100 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 329 µg/kg
Exposure Route: Zemlja; PNEC Limit: 290 µg/kg

4-izocianatosulfoniltoluen

CAS: 4083-64-1 Exposure Route: Fresh Water; PNEC Limit: 30 mg/m³
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 300 mg/m³
Exposure Route: Marine water; PNEC Limit: 3 mg/m³
Exposure Route: Mikroorganizmi v čiščenju odpad; PNEC Limit: 400 mg/m³
Exposure Route: Freshwater sediments; PNEC Limit: 172 µg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 17.2 µg/kg

Exposure Route: Zemlja; PNEC Limit: 16.8 µg/kg

Heksametilen-1,6-diizocianat

CAS: 822-06-0 Exposure Route: Mikroorganizmi v čiščenju odpadkov; PNEC Limit: 8.42 mg/l

Exposure Route: Marine water; PNEC Limit: 7.74 mg/m³

Exposure Route: Fresh Water; PNEC Limit: 77.4 mg/m³

Exposure Route: Usedline morske vode; PNEC Limit: 1.334 µg/kg

Exposure Route: Freshwater sediments; PNEC Limit: 13.34 µg/kg

Exposure Route: Zemlja; PNEC Limit: 2.6 µg/kg

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.774 mg/l

Derived No Effect Level (DNEL) values

2-metoksi-1-metiletil acetat

CAS: 108-65-6 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 275 mg/kg/day; Consumer: 33 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 550 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 33 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 796 mg/kg; Consumer: 320 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 36 mg/kg

4-izocianatosulfoniltoluen

CAS: 4083-64-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 3.24 mg/kg/day; Consumer: 800 µg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 920 µg/kg; Consumer: 460 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 460 µg/kg

Heksametilen-1,6-diizocianat

CAS: 822-06-0 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 35 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 35 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 70 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 70 µg/m³

8.2. Exposure controls

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; BS EN 16523-1:2015+A1:2018: Level 6.

Butyl rubber - BR: thickness ≥0.40mm; breakthrough time ≥480min.

Nitrile rubber - NBR: thickness ≥0.40mm; breakthrough time ≥480min.

Respiratory protection:

Plinski filter tipa A.

Thermal Hazards:

Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls:

Ne dovolite, da izdelek pride v kanalizacijo ali v površinske ali podzemne vode.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	light yellow
Odour:	characteristic
pH:	Not Relevant Notes: Ni uporabljivo, nevodna zmes
Kinematic viscosity:	N.A.
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	N.A.
Flash point:	24 °C (75 °F)
Lower and upper explosion limit:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	1.11 g/cm ³
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient n-octanol/water (log value):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Flammability:	The product is classified Flam. Liq. 3
Volatile Organic compounds - VOCs =	30.07%; 332.26g/L
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with oxidizing materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	The product is classified: Acute Tox. 4(H332)
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met

c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H335)
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

2-metoksi-1-metiletil acetat

CAS: 108-65-6	a) acute toxicity	LD50 Oral Rat = 6190 mg/kg LD50 Skin Rabbit > 5000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative
	g) reproductive toxicity	No Observed Effect Level Rat = 3.69 mg/l

4-izocianatosulfoniltoluen

CAS: 4083-64-1	a) acute toxicity	LD50 Oral Rat = 2330 mg/kg LD50 Skin Rat > 2000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 24h
	c) serious eye damage/irritation	Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Negative
	f) carcinogenicity	Genotoxicity Negative 48h
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 52 mg/kg

Heksametilen-1,6-diizocianat

CAS: 822-06-0	a) acute toxicity	LD50 Oral Rat = 959 mg/kg LC50 Inhalation Vapour Rat = 124 mg/m3 4h LD50 Skin Rat > 7000 mg/kg 24h
	b) skin corrosion/irritation	Skin Corrosive Rabbit Positive
	c) serious eye damage/irritation	Eye Corrosive Rabbit Positive
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive Respiratory Sensitization Guineapig Positive
	f) carcinogenicity	Genotoxicity Negative Carcinogenicity Inhalation Rat = 1.15 mg/m3
	g) reproductive toxicity	No Observed Effect Level Rat = 0.3 ppm

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.

No data available for the product

List of Eco-Toxicological properties of the components

2-metoksi-1-metiletil acetat

- CAS: 108-65-6
- a) Aquatic acute toxicity: LC50 Fish *Oncorhynchus mykiss* = 130 mg/L 96h
 - b) Aquatic chronic toxicity: NOEC Fish *Oryzias latipes* = 47.5 mg/L
 - a) Aquatic acute toxicity: LC50 *Daphnia magna* = 408 mg/L 48h
 - b) Aquatic chronic toxicity: NOEC *Daphnia magna* > 100 mg/L
 - a) Aquatic acute toxicity: NOEC Algae *Selenastrum capricornutum* >= 1000 mg/L

4-izocianatosulfoniltoluen

- CAS: 4083-64-1
- a) Aquatic acute toxicity: LC50 Fish *Oncorhynchus mykiss* > 45 mg/L 96h
 - a) Aquatic acute toxicity: EC50 *Daphnia magna* = 100 mg/L 48h
 - a) Aquatic acute toxicity: EC50 Algae *Pseudokirchnerella subcapitata* = 30 mg/L 72h

Heksametilen-1,6-diizocianat

- CAS: 822-06-0
- a) Aquatic acute toxicity: LC0 Fish *Brachydanio rerio* = 82.8 mg/L 96h
 - a) Aquatic acute toxicity: EC0 *Daphnia magna* >= 89.1 mg/L 48h
 - c) Bacteria toxicity: EC50 = 842 mg/L
 - a) Aquatic acute toxicity: EC50 Algae *Desmodesmus subspicatus* = 77.4 mg/L 72h
 - a) Aquatic acute toxicity: EC10 Algae freshwater algae = 48 mg/L 72h
 - c) Bacteria toxicity: EC50 Sludge activated sludge = 842 mg/L 3h

12.2. Persistence and degradability

2-metoksi-1-metiletil acetat

CAS: 108-65-6	Readily biodegradable	Test: Dissolved organic carbon Notes: OECD GL 301E
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4-izocianatosulfoniltoluen

CAS: 4083-64-1	Readily biodegradable	Test: Oxygen consumption; Value: 83 Notes: %; OECD 301D
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Heksametilen-1,6-diizocianat

CAS: 822-06-0	Non-readily biodegradable	Test: Oxygen consumption Notes: OECD Guideline 302 C
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12.3. Bioaccumulative potential

Heksametilen-1,6-diizocianat

CAS: 822-06-0	Bioaccumulative	Test: BCF - Bioconcentration factor; Value: 57.63
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12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

Ni sestavine PBT/vPvB.

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Ce je mogoče, predelajte. Pošljite v usposobljena odlagališča ali v zažig pod kontroliranimi pogoji. Ravajte se po lokalnih in državnih normah. Odstranjevanje z izpustom v odpadne vode ni dovoljeno

Odstranjeni izdelek mora biti v skladu z Uredbo (EU) 1357/2014 razvrščen kot nevaren odpad

Šifre odpadkov v skladu z Evropski seznam odpadkov (ESO) ni mogoče določiti zaradi odvisnosti od uporabe. Obrnite se na pooblaščen službo za odstranjevanje odpadkov.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL
IATA-Shipping Name: PAINT RELATED MATERIAL
IMDG-Shipping Name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR-Class: 3
IATA-Class: 3
IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No
Environmental Pollutant: No
IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):
ADR-Label: 3
ADR - Hazard identification number: -
ADR-Special Provisions: 163 367 650
ADR-Transport category (Tunnel restriction code): 3 (E)
ADR Limited Quantities: 5 L
ADR Excepted Quantities: E1

Air (IATA):
IATA-Passenger Aircraft: 355
IATA-Cargo Aircraft: 366
IATA-Label: 3
IATA-Subsidiary hazards: -
IATA-Erg: 3L
IATA-Special Provisions: A3 A72 A192

Sea (IMDG):
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
IMDG-Subsidiary hazards: -
IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

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)	Regulation (EU) n. 2015/1221 (ATP 7 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. 2018/1480 (ATP 13 CLP)	Regulation (EU) n. 2019/521 (ATP 12 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)	Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)	Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2024/2865
Regulation (EC) nr 648/2004 (Detergents).
Omejčitve, 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, 40
Restrictions related to the substances contained: 74, 75

Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/2564 (ATP 22 CLP)
Regulation (EU) n. 2025/1222 (ATP 23 CLP)

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

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P5c	5000	50000

Explosives precursors – Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

NWG: Not hazardous for water

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 23.81 %
Volatile Organic compounds - VOCs = 321.47 g/L

FACTORY COLOR PU-S (B) (not ready to use)
Volatile Organic compounds - VOCs = 30.07 %
Volatile Organic compounds - VOCs = 332.26 g/L

15.2. Chemical safety assessment

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

Substances for which a Chemical Safety Assessment has been carried out:

Hexamethylene diisocyanate, oligomers
2-metoksi-1-metiletil acetat
4-izocianatosulfoniltoluen

SECTION 16: Other information

Code	Description
EUH014	Reacts violently with water.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
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.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/1/Inhal	Acute Tox. 1	Acute toxicity (inhalation), Category 1
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/2	Skin Irrit. 2	Skin irritation, Category 2

3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

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
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Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method

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 MSDS 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: Keep Away From Heat

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:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- 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 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Scenarij izpostavljenosti

2-methoxy-1-methylethyl acetate

Scenarij izpostavljenosti, 08/06/2021

Identiteta snovi	
	2-methoxy-1-methylethyl acetate
Št.CAS	108-65-6
Št. INDEKSA	607-195-00-7
Št.EINECS	203-603-9
Registracijska številka	01-2119475791-29

Kazalo

1. ES 1

1. ES 1

1.1 NASLOVNI ODSTAVEK

Ime scenarija izpostavljenosti	Gospodarska uporaba premazov in barv s pleskanjem in valjanjem
Datum - revizija	29/04/2021 - 1.0
Glavna uporabniška skupina	Poklicne uporabe
Sektor(-ji) uporabe	Poklicne uporabe (SU22)
Kategorije izdelkov	Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)

Scenarij, ki prispeva Okolje

CS1	ERC8a - ERC8d
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Scenarij, ki prispeva Delojemalec

CS2 Velike površine - Nanašanje z valjem in čopičem	PROC10
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1.2 Pogoji uporabe z vplivom na izpostavitve

1.2. CS1: Scenarij, ki prispeva Okolje (ERC8a, ERC8d)

Kategorije sproščanja v okolje	Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, notranja) - Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, zunanja) (ERC8a, ERC8d)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekoč

Koncentracija substance v produktu:

Obsega koncentracije do 100 %

Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)

Uporabljene količine:

Dnevna količina na lokacijo = 5000 kg

Tip izločanja: Kontinuirano izločanje

Dnevi emisij: 365 dnevi na leto

Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami

Vrsta čistilne naprave (STP):

Komunalna STP čistilna naprava

Voda - najmanjša učinkovitost: = 87.3 %

Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)

Ravnanje z odpadki

Zbirajte odpadke in jih odstranite skladno s krajevnimi predpisi.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja

Krajevni faktor razredčenja morske vode:: 100

Krajevni faktor razredčenja sladke vode: 10

Dodaten nasvet iz primerov dobre prakse. Obveznosti v skladu s 4. odstavkom 37. člena Uredbe REACH ne veljajo.

Dodaten nasvet iz primerov dobre prakse:

Na lokaciji mora biti z načrtom za postopke v primeru razlitja zagotovljeno, da so bili sprejeti primerni zaščitni ukrepi za zmanjšanje učinkov občasnih izpustov na minimum.

1.2. CS2: Scenarij, ki prispeva Delojemalec: Velike površine - Nanašanje z valjem in čopičem (PROC10)

Kategorije procesov	Nanašanje z valjčkom ali čopičem (PROC10)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekoč

Koncentracija substance v produktu:

Obsega koncentracije do 100 %

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost**Uporabljene količine:**

Dnevna količina na lokacijo = 5000 kg

Trajanje:

Trajanje izpostavljenosti = 8 h/dan

Frekvenca:

Pogostost uporabe = 365 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi**Tehnični in organizacijski ukrepi**

Zagotovite redno preverjanje in vzdrževanje nadzornih ukrepov.
Izvajajte v prezračevani kabini ali ohišju z odsesavanjem.

Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja**Osebna zaščitna oprema**

Nosite respirator skladno z EN140.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Zajema notranjo in zunanjo uporabo

Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.**1.3 Ocena izpostavljenosti in sklicevanje na njen vir****1.3. CS1: Scenarij, ki prispeva Okolje (ERC8a, ERC8d)**

cilj zaščite	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
sladka voda	= 0.003 mg/L	ECETOC TRA environment v3	= 0.004
sladkovodne usedline	= 0.014 mg/kg KW	ECETOC TRA environment v3	= 0.004
morska voda	= 0.0004 mg/L	ECETOC TRA environment v3	= 0.007
morske usedline	= 0.002 mg/kg KW	ECETOC TRA environment v3	= 0.007
tla	= 0.001 mg/kg KW	ECETOC TRA environment v3	= 0.004

1.3. CS2: Scenarij, ki prispeva Delojemalec: Velike površine - Nanašanje z valjem in čopičem (PROC10)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, sistemsko, dolgoročno	= 137.71 mg/m ³	ECETOC TRA delojemalec v3	= 0.5
stik s kožo, sistemsko, dolgoročno	= 13.71 mg/kg bw/dan	ECETOC TRA delojemalec v3	0.18

1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve**Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:**

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven

upravljanja s tveganji.

Scenarij izpostavljenosti

Hexamethylene diisocyanate, oligomers

Scenarij izpostavljenosti, 08/06/2021

Identiteta snovi	
	Hexamethylene diisocyanate, oligomers
št.CAS	28182-81-2
št.EINECS	500-060-2
Registracijska številka	01-2119485796-17

Kazalo

1. **ES 1** Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)

1. ES 1		Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)
1.1 NASLOVNI ODSTAVEK		
Ime scenarija izpostavljenosti	Barva - Gospodarska uporaba premazov in barv s pleskanjem in valjanjem - Gospodarska uporaba premazov in barv	
Datum - revizija	08/06/2021 - 1.0	
Stopnja življenjskega cikla	Široko razširjena uporaba, ki jo izvajajo poklicni delavci	
Glavna uporabniška skupina	Poklicne uporabe	
Sektor(-ji) uporabe	Poklicne uporabe (SU22)	
Kategorije izdelkov	Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a)	
Kategorije proizvodov	Izdelki iz kamna, mavca, cementa, stekla in keramike: Izdelki, ki se uporabljajo na velikih površinah (AC4a) - Drugi izdelki iz kamna, mavca, cementa, stekla ali keramike (AC4g)	
Scenarij, ki prispeva Okolje		
CS1	ERC8c - ERC8f	
Scenarij, ki prispeva Delojemalec		
CS2 Dejavnosti mešanja - Prenosi materiala	PROC8a	
CS3 Površine - Nanašanje z valjem in čopičem	PROC10	
CS4 Površine - Nanašanje z valjem, pršenjem in polivanjem	PROC11	
1.2 Pogoji uporabe z vplivom na izpostavitve		
1.2. CS1: Scenarij, ki prispeva Okolje (ERC8c, ERC8f)		
Kategorije sproščanja v okolje	Široko razširjena uporaba, rezultat katere je vključitev v ali na izdelek (notranja) - Široko razširjena uporaba, rezultat katere je vključitev v ali na izdelek (zunanja) (ERC8c, ERC8f)	
Lastnosti izdelka (proizvoda)		
Fizikalna oblika izdelka: Tekočina, parni tlak < 0,5 kPa pri STP		
Parni tlak: = 0.00246 Pa		
Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)		
Uporabljene količine: Dnevna količina na lokacijo 50 ton/dnevno		
Tip izločanja: Občasno sproščanje		
Tehnični in organizacijski pogoji in ukrepi		
Kontrolni ukrepi za preprečevanje izpustov Ni spuščanja snovi v odpadne vode		
Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami		
Vrsta čistilne naprave (STP): Komunalna STP čistilna naprava Voda - najmanjša učinkovitost: = 100 %		
STP odpadne vode (m3/dan): 2000		
Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)		
Ravnanje z odpadki Zunanja obdelava in odstranjevanje odpadkov morata biti skladna s krajevnimi in/ali nacionalnimi predpisi.		
Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja		
Pretok sprejemnih površinskih voda: 18000 m3/dan		

1.2. CS2: Scenarij, ki prispeva Delojemalec: Dejavnosti mešanja - Prenosi materiala (PROC8a)

Kategorije procesov	Prenos snovi ali zmesi (polnjenje in praznjenje) na nenamenskih napravah (PROC8a)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekočina, parni tlak < 0,5 kPa pri STP

Parni tlak:

Parni tlak < 0.01 Pa pri standardni temperaturi in tlaku = 0.00246 Pa

Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 100 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:

Obsega dnevno izpostavljenost do 8 ure

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Potrebno je integrirano lokalno odsesavanje.

Zagotovite osnovno stopnjo splošnega prezračevanja (1 do 3 izmenjav zraka na uro).

Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja

Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.	Vdihavanje - najmanjša učinkovitost: = 90 %
Nosite ustrezno opremo za zaščito dihal.	

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija

Gospodarska uporaba

Velikost prostora: = 300 m³

Temperatura: Obsega uporabo pri temperaturi okolice. 40°C

1.2. CS3: Scenarij, ki prispeva Delojemalec: Površine - Nanašanje z valjem in čopičem (PROC10)

Kategorije procesov	Nanašanje z valjčkom ali čopičem (PROC10)
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Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekočina, parni tlak < 0,5 kPa pri STP

Parni tlak:

Parni tlak < 0.01 Pa pri standardni temperaturi in tlaku = 0.00246 Pa

Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 100 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:

Obsega dnevno izpostavljenost do 8 ure

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Potrebno je integrirano lokalno odsesavanje.

Zagotovite osnovno stopnjo splošnega prezračevanja (1 do 3 izmenjav zraka na uro).

Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja

Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.
Nosite ustrezno opremo za zaščito dihal.

Vdihavanje - najmanjša učinkovitost: = 90 %

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija

Gospodarska uporaba

Velikost prostora: = 300 m³

Temperatura: Obsega uporabo pri temperaturi okolice. 40°C

1.2. CS4: Scenarij, ki prispeva Delojemalec: Površine - Nanašanje z valjem, pršenjem in polivanjem (PROC11)

Kategorije procesov

Neindustrijsko brizganje (PROC11)

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:

Tekočina, parni tlak < 0,5 kPa pri STP

Parni tlak:

Parni tlak < 0.01 Pa pri standardni temperaturi in tlaku = 0.00246 Pa

Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 100 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:

Obsega dnevno izpostavljenost do 8 ure

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Potrebno je integrirano lokalno odsesavanje.

Zagotovite osnovno stopnjo splošnega prezračevanja (1 do 3 izmenjav zraka na uro).

Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja

Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.
Nosite ustrezno opremo za zaščito dihal.
Uporabljajte popolno zaščitno masko v skladu z EN136.

Vdihavanje - najmanjša učinkovitost: = 98 %

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Zajema notranjo in zunanjo uporabo

Gospodarska uporaba

Velikost prostora: < 300 m³

Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

Dodaten nasvet iz primerov dobre prakse. Obveznosti v skladu s 4. odstavkom 37. člena Uredbe REACH ne veljajo.

Dodaten nasvet iz primerov dobre prakse:

Pršite samo navzdol ali vodoravno.

1.3 Ocena izpostavljenosti in sklicevanje na njen vir

1.3. CS2: Scenarij, ki prispeva Delojemalec: Dejavnosti mešanja - Prenosi materiala (PROC8a)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti

Stopnja izpostavljenosti

Metoda izračuna

Stopnja opredelitve tveganja (RCR)

inhalacijski, lokalno, kratkoročno	= 0.07 mg/m ³	ECETOC TRA delojemalec v3	= 0.07
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1.3. CS3: Scenarij, ki prispeva Delojemalec: Površine - Nanašanje z valjem in čopičem (PROC10)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, lokalno, kratkoročno	= 0.18 mg/m ³	ECETOC TRA delojemalec v3	= 0.18

1.3. CS4: Scenarij, ki prispeva Delojemalec: Površine - Nanašanje z valjem, pršenjem in polivanjem (PROC11)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, lokalno, kratkoročno	= 0.4 mg/m ³	ECETOC TRA delojemalec v3	= 0.4

1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve

Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven upravljanja s tveganji.

Scenarij izpostavljenosti

4-isocyanatosulphonyltoluene

Scenarij izpostavljenosti, 08/06/2023

Identiteta snovi	
	4-isocyanatosulphonyltoluene
Št.CAS	4083-64-1
Št. INDEKSA	615-012-00-7
Št.EINECS	223-810-8
Registracijska številka	01-2119980050-47

Kazalo

1. ES 1 Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC1); Gradbeništvo (SU19)

1. ES 1		Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC1); Gradbeništvo (SU19)	
1.1 NASLOVNI ODSTAVEK			
Ime scenarija izpostavljenosti		Gospodarska uporaba premazov in barv - Uporaba za trde penaste mase, premaze, lepila in tesnila	
Datum - revizija		08/06/2023 - 1.0	
Stopnja življenjskega cikla		Široko razširjena uporaba, ki jo izvajajo poklicni delavci	
Glavna uporabniška skupina		Poklicne uporabe	
Sektor(-ji) uporabe		Gradbeništvo (SU19)	
Kategorije izdelkov		Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) - Lepila, tesnilna sredstva (PC1)	
Scenarij, ki prispeva Okolje			
CS1		ERC8c - ERC8f	
Scenarij, ki prispeva Delojemalec			
CS2 Prenosi materiala		PROC8a	
CS3 Nanašanje z valjem in čopičem		PROC10	
1.2 Pogoji uporabe z vplivom na izpostavitve			
1.2. CS1: Scenarij, ki prispeva Okolje (ERC8c, ERC8f)			
Kategorije sproščanja v okolje		Široko razširjena uporaba, rezultat katere je vključen v ali na izdelek (notranja) - Široko razširjena uporaba, rezultat katere je vključen v ali na izdelek (zunanja) (ERC8c, ERC8f)	
Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)			
Uporabljene količine: Dnevna količina na lokacijo <= 8.922E-05			
Dnevi emisij: 225 dnevi na leto			
Tehnični in organizacijski pogoji in ukrepi			
Kontrolni ukrepi za preprečevanje izpustov			
		Tla - najmanjša učinkovitost: 0.5 % Voda - najmanjša učinkovitost: 1 %	
Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami			
Vrsta čistilne naprave (STP): Komunalna STP čistilna naprava Voda - najmanjša učinkovitost: = 87.36 %			
STP odpadne vode (m3/dan): 2000			
Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)			
Ravnanje z odpadki Zunanja obdelava in odstranjevanje odpadkov morata biti skladna s krajevnimi in/ali nacionalnimi predpisi.			
1.2. CS2: Scenarij, ki prispeva Delojemalec: Prenosi materiala (PROC8a)			
Kategorije procesov		Prenos snovi ali zmesi (polnjenje in praznjenje) na nenamenskih napravah (PROC8a)	
Lastnosti izdelka (proizvoda)			
Koncentracija substance v produktu: Obsega delež snovi v izdelku do 1 %.			
Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost			

Trajanje: Obsega uporabo do < 8 h			
Tehnični in organizacijski pogoji in ukrepi			
Tehnični in organizacijski ukrepi Zagotovite osnovno stopnjo splošnega prezračevanja (1 do 3 izmenjav zraka na uro).			
Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja			
Osebna zaščitna oprema			
Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374).		Kožni - najmanjša učinkovitost: = 90 %	
Uporabljajte popolno zaščitno masko v skladu z EN136.		Vdihavanje - najmanjša učinkovitost: = 90 %	
Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev			
Notranja aplikacija Gospodarska uporaba Temperatura: Sprejme procesno temperaturo do 40°C Izpostavljeni deli telesa: Predpostavlja se, da je morebiten stik s kožo omejen na roke.			
1.2. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)			
Kategorije procesov		Nanašanje z valjčkom ali čopičem (PROC10)	
Lastnosti izdelka (proizvoda)			
Koncentracija substance v produktu: Obsega delež snovi v izdelku do 1 %.			
Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost			
Trajanje: Obsega uporabo do < 8 h			
Tehnični in organizacijski pogoji in ukrepi			
Tehnični in organizacijski ukrepi Zagotovite osnovno stopnjo splošnega prezračevanja (1 do 3 izmenjav zraka na uro).			
Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja			
Osebna zaščitna oprema			
Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374).		Kožni - najmanjša učinkovitost: = 90 %	
Uporabljajte popolno zaščitno masko v skladu z EN136.		Vdihavanje - najmanjša učinkovitost: = 90 %	
Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev			
Notranja aplikacija Gospodarska uporaba Temperatura: Sprejme procesno temperaturo do 40°C Izpostavljeni deli telesa: Predpostavlja se, da je morebiten stik s kožo omejen na roke.			
1.3 Ocena izpostavljenosti in sklicevanje na njen vir			
1.3. CS1: Scenarij, ki prispeva Okolje (ERC8c, ERC8f)			
cilj zaščite	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)

sladka voda	= 0.0001655 mg/L	N/A	< 0.01
morska voda	= 1.544E-05 mg/L	N/A	< 0.01
sladkovodne usedline	= 0.0009514 mg/kg suha teža	N/A	< 0.01
morske usedline	= 8.873E-05 mg/kg suha teža	N/A	< 0.01
Čistilnih napravah	= 5.637E-05 mg/L	N/A	< 0.01
Obdelana zemlja	= 0.0002528 mg/kg suha teža	N/A	< 0.015

1.3. CS2: Scenarij, ki prispeva Delojemalec: Prenosi materiala (PROC8a)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, sistemsko, dolgoročno	= 2.054 mg/m ³	N/A	= 0.634
stik s kožo, sistemsko, dolgoročno	= 0.137 mg/kg suha teža	N/A	= 0.149
kombinirane poti, sistemsko, dolgoročno	N/A	N/A	= 0.783

1.3. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, sistemsko, dolgoročno	= 2.054 mg/m ³	N/A	= 0.634
stik s kožo, sistemsko, dolgoročno	= 0.274 mg/kg suha teža	N/A	= 0.298
kombinirane poti, sistemsko, dolgoročno	N/A	N/A	= 0.932

1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve

Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven upravljanja s tveganji.