FASSAFILL EPOXY CLEANER

Varnostni list z dne 02/10/2025 revizija 5

ODDELEK 1: Identifikacija snovi/zmesi in družbe/podjetja

1.1 Identifikator izdelka

Identifikacija pripravka:

Komercialno ime: FASSAFILL EPOXY CLEANER

Komercialna koda: 1292

UFI: C8QX-QSHM-J6ER-99YM

1.2 Pomembne identificirane uporabe snovi ali zmesi in odsvetovane uporabe

Priporočena uporaba: Čistilo za odstranjevanje ostankov epoksidnih kitov; Samo za profesionalno uporabo

Odsvetovane uporabe: Ni namenjeno za potrošniško uporabo

1.3 Podrobnosti o dobavitelju varnostnega lista

Dobavitelj FASSA Srl

Via Lazzaris, 3 - 31027 Spresiano (TV) - ITALY

Tel. +39 0422 7222

Fax +39 0422 887509

Odgovorni: laboratorio.spresiano@fassabortolo.it

1.4 Telefonska številka za nujne primere

112 - Center za obveščanje (na voljo 24 ur)

ODDELEK 2: Določitev nevarnosti



2.1 Razvrstitev snovi ali zmesi

Uredba (ES) št. 1272/2008 (CLP)

Eye Irrit. 2	Povzroča hudo draženje oči.
Skin Sens. 1	Lahko povzroči alergijski odziv kože.

Nevarnosti fizikalno-kemijskih lastnosti za zdravje ljudi in za okolje:

Ni drugih tveganj

2.2 Elementi etikete

Uredba (ES) št. 1272/2008 (CLP)

Piktogrami za nevarnost in Opozorilna beseda



Pozor

Stavki o nevarnosti

H317	Lahko povzroči alergijski odziv kože.
H319	Povzroča hudo draženje oči.

Previdnostni stavki

P261	Ne vdihavati dima/plina/meglice/hlapov/razpršila.
P280	Nadenite si zaščitne rokavice in zaščitite oči/obraz.
P333+P313	Če nastopi draženje kože ali se pojavi izpuščaj: poiščite zdravniško pomoč/oskrbo.
P337+P313	Če draženje oči ne preneha: poiščite zdravniško pomoč/oskrbo.
P362+P364	Sleči kontaminirana oblačila in jih oprati pred ponovno uporabo.
P501	Odstraniti vsebino/posodo v skladu z nacionalnimi predpisi.

Vsebuje:

benzil alkohol

Posebne določbe v skladu s Prilogo XVII uredbe REACH in poznejše spremembe:

Nobeden

2.3 Druge nevarnosti

Označevanje vsebine (Uredba (ES) št. 648/2004): 5 - 15% anionske površinsko aktivne snovi

Ni snovi PBT, vPvB ali endokrinih motilcev v koncentraciji > = 0,1%.

Ni drugih tveganj

ODDELEK 3: Sestava/podatki o sestavinah

3.1 Snovi

ni znano

3.2 Zmesi

Identifikacija pripravka: FASSAFILL EPOXY CLEANER

Nevarne sestavine, skladno z Uredbo CLP in njeno razvrstitvijo:

Količina	Ime	Ident. št.	Razvrstitev	Registracijska številka:
≥15 - <20 %	benzil alkohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Ocena akutne strupenosti: ATE - Oralno: 1200mg/kg tt	01-2119492630-38-xxxx
≥7 - <10 %	1-metoksi-2-propanol	CAS:107-98-2 EC:203-539-1 Index:603-064-00-3	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35-xxxx
≥1 - <2.5 %	2,2'-butiliminodietanol	CAS:102-79-4 EC:203-055-0	Eye Dam. 1, H318	01-2120124239-60-xxxx

ODDELEK 4: Ukrepi za prvo pomoč

4.1 Opis ukrepov za prvo pomoč

V primeru stika s kožo:

Kontaminirana oblačila takoj slecite in jih na varen način odstranite.

V primeru stika s proizvodom in tudi v primeru suma morebitnega stika, dele telesa takoj umijte z veliko količino tekoče vode in milom.

Umijte celotno telo (tuširanje ali kopel).

V primeru stika z očmi:

V primeru stika z očmi dovolj dolgo in z odprtimi očesnimi vekami izpirajte z obilo vode, nato poiščite pomoč zdravnika oftalmologa.

Poškodovano oko zaščitite.

V primeru zaužitja:

Po zaužitju ne izzivati bruhanja, takoj poiskati zdravniško pomoč in pokazati varnostni list in nalepko.

V primeru vdihavanja:

Prizadeto osebo umaknite na svež zrak in pustite počivati na toplem.

4.2 Najpomembnejši simptomi in učinki, akutni in zapozneli

Simptomi in ucinki so taki, kot je pricakovano glede na nevarnosti, kar je prikazano v 2. razdelku.

4.3 Navedba kakršne koli takojšnje medicinske oskrbe in posebnega zdravljenja

V primeru nesreče ali slabega počutja takoj poiščite zdravniško pomoč (če je mogoče, pokažite navodila za uporabo ali varnostni list).

ODDELEK 5: Protipožarni ukrepi

5.1 Sredstva za gašenje

Ustrezna sredstva za gašenje:

Proizvod ni vnetljiv

Sredstva za gašenje, ki se jih iz varnostnih razlogov ne sme uporabljati:

Noben posebej.

5.2 Posebne nevarnosti v zvezi s snovjo ali zmesjo

Pri gorenju nastajajo težki dimni plini.

V primeru požara in/ali eksplozije ne vdihavajte dima.

5.3 Nasvet za gasilce

Uporabiti ustrezne dihalne naprave.

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

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

ODDELEK 6: Ukrepi o nenamernih izpustih

6.1 Osebni varnostni ukrepi, zaščitna oprema in postopki v sili

Za neizučeno osebje:

Nosite osebno varovalno opremo.

Osebe umaknite na varno mesto.

Glejte v oddelku 7 in 8 navedene zaščitne ukrepe.

Za reševalce:

Nosite osebno varovalno opremo.

6.2 Okoljevarstveni ukrepi

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

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

6.3 Metode in materiali za zadrževanje in čiščenje

Za zbiranje primeren material: inerten vpojni materiali (npr. pesek, vermikulit).

Po pobiranju z vodo izperite območje in prizadete materiale.

Kontaminirano vodo za pranje shranite in odstranite.

6.4 Sklicevanje na druge oddelke

Glejte tudi naslova 8 in 13

ODDELEK 7: Ravnanje in skladiščenje

7.1 Varnostni ukrepi za varno ravnanje

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

Prazne vsebnike ne uporabite dokler niso očiščeni.

Pred postopki prenosa se prepričajte, da v vsebnikih ni ostankov nezdružljivih materialov.

Nasveti o splošni higieni dela:

Kontaminirana oblačila se mora pred vstopom v jedilnico zamenjati.

Med delom ne jejte in ne pijte.

Glejte tudi oddelek 8 o priporočeni varovalni opremi.

7.2 Pogoji za varno skladiščenje, vključno z nezdružljivostjo

Posode hranite tesno zaprte na hladnem in dobro prezračevanem mestu proč od virov toplote.

Hranite stran od hrane, pijač in krme.

Inkompaktibilne snovi:

Glejte točko 10.5

Navodila za prostore:

Primerno zračeni prostori.

Zaščitite pred zmrzaljo.

7.3 Posebne končne uporabe

Priporočila

Glejte točko 1.2

Specifične rešitve za industrijski sektor

Nobena posebna uporaba

ODDELEK 8: Nadzor izpostavljenosti/osebna zaščita

8.1 Parametri nadzora

Mejne vrednosti za poklicno izpostavljenost

benzil alkohol

CAS: 100-51-6	Tip OPZ	MAK	Nemčija	Dolgotrajna 22 mg/m3 - 5 ppm; Kratkotrajna 44 mg/m3 - 10 ppm Opombe: Inhalable fraction and vapour, Skin
	Tip OPZ	TLV	Bolgarija	Dolgotrajna 5 mg/m3
	Tip OPZ	TLV	Češka	Dolgotrajna 40 mg/m3 - 8.88 ppm; Kratkotrajna 80 mg/m3 - 17.76 ppm
	Tip OPZ	SUVA	Švicar	Dolgotrajna 22 mg/m3 - 5 ppm
	Tip OPZ	AGW	Nemčija	Dolgotrajna 22 mg/m3 - 5 ppm; Kratkotrajna 44 mg/m3 - 10 ppm Opombe: Inhalable fraction and vapour
	Tip OPZ	NDS	Poljska	Dolgotrajna 240 mg/m3
	Tip OPZ	MV	Slovenija	Dolgotrajna 22 mg/m3 - 5 ppm; Kratkotrajna 44 mg/m3 - 10 ppm Opombe: Skin
	Tip OPZ	IPRV	Litva	Dolgotrajna 5 mg/m3 Opombe: Skin

1-metoksi-2-propanol

CAS: 107-98-2	Tip OPZ	ACGIH		Dolgotrajna 50 ppm; Kratkotrajna 100 ppm Opombe: A4 - Eye and URT irr
	Tip OPZ	EU		Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 563 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	MAK	Avstrija	Dolgotrajna 187 mg/m3 - 50 ppm; Kratkotrajna 187 mg/m3 - 50 ppm Opombe: Skin
	Tip OPZ	MAK	Nemčija	Dolgotrajna 370 mg/m3 - 100 ppm; Kratkotrajna 740 mg/m3 - 200 ppm
	Tip OPZ	VLEP	Belgija	Dolgotrajna 184 mg/m3 - 50 ppm; Kratkotrajna 369 mg/m3 - 100 ppm Opombe: Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.
	Tip OPZ	VLEP	Francija	Dolgotrajna 188 mg/m3 - 50 ppm; Kratkotrajna 375 mg/m3 - 100 ppm Opombe: Skin
	Tip OPZ	VLEP	Italija	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	VLEP	Romunija	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm
	Tip OPZ	TLV	Bolgarija	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	TLV	Češka	Dolgotrajna 270 mg/m3 - 72.09 ppm; Kratkotrajna 550 mg/m3 - 146.85 ppm Opombe: Skin
	Tip OPZ	VLA	Španija	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	ÁK	Madžarska	Dolgotrajna 375 mg/m3; Kratkotrajna 568 mg/m3 Opombe: Skin
	Tip OPZ	MAC	Nizozemska	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 563 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	VLE	Portugalska	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm
	Tip OPZ	SUVA	Švicar	Dolgotrajna 360 mg/m3 - 100 ppm; Kratkotrajna 720 mg/m3 - 200 ppm
	Tip OPZ	WEL	U.K.	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 560 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	GVI	Hrvaška	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm
	Tip OPZ	AGW	Nemčija	Dolgotrajna 370 mg/m3 - 100 ppm; Kratkotrajna 740 mg/m3 - 200 ppm
	Tip OPZ	NDS	Poljska	Dolgotrajna 180 mg/m3; Kratkotrajna 360 mg/m3 Opombe: Skin
	Tip OPZ	MV	Slovenija	Dolgotrajna 375 mg/m3 - 100 ppm; Kratkotrajna 568 mg/m3 - 150 ppm Opombe: Skin
	Tip OPZ	IPRV	Litva	Dolgotrajna 190 mg/m3 - 50 ppm; Kratkotrajna 300 mg/m3 - 75 ppm

Mejna vrednost izpostavljenosti po PNEC

benzil alkohol

CAS: 100-51-6	Način izpostavitve: Sladka voda; PNEC Omejite: 1 mg/l
	Način izpostavitve: Morska voda; PNEC Omejite: 0.1 mg/l
	Način izpostavitve: Mikroorganizmi v čistilnih napravah (STP); PNEC Omejite: 39 mg/l
	Način izpostavitve: Sladkovodni sedimenti; PNEC Omejite: 5.27 mg/kg
	Način izpostavitve: Morski sedimenti; PNEC Omejite: 0.527 mg/kg
	Način izpostavitve: Prst; PNEC Omejite: 0.456 mg/kg

1-metoksi-2-propanol

CAS: 107-98-2	Način izpostavitve: Morska voda; PNEC Omejite: 1 mg/l
	Način izpostavitve: Sladka voda; PNEC Omejite: 10 mg/l
	Način izpostavitve: Mikroorganizmi v čistilnih napravah (STP); PNEC Omejite: 100 mg/l
	Način izpostavitve: Morski sedimenti; PNEC Omejite: 5.2 mg/kg
	Način izpostavitve: Sladkovodni sedimenti; PNEC Omejite: 52.3 mg/kg
	Način izpostavitve: Tla (kmetijska); PNEC Omejite: 4.59 mg/kg

2,2'-butiliminodietanol

CAS: 102-79-4 Način izpostavitve: Sladka voda; PNEC Omejite: 0.44 mg/l

Način izpostavitve: Morska voda; PNEC Omejite: 0.044 mg/l

Način izpostavitve: Mikroorganizmi v čistilnih napravah (STP); PNEC Omejite: 7.27 mg/l

Način izpostavitve: Sladkovodni sedimenti; PNEC Omejite: 2.024 mg/kg

Način izpostavitve: Morski sedimenti; PNEC Omejite: 0.202 mg/kg

Način izpostavitve: Prst; PNEC Omejite: 0.146 mg/kg

Izpeljane vrednosti brez učinka. (DNEL)

benzil alkohol

CAS: 100-51-6 Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Strokovni delavec: 22 mg/m3; Uporabnik: 5.4 mg/m3

Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Kratkotrajna, sistemski učinek
Strokovni delavec: 110 mg/m3; Uporabnik: 27 mg/m3

Način izpostavitve: Dermalno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Strokovni delavec: 8 mg/kg; Uporabnik: 4 mg/kg

Način izpostavitve: Dermalno, človek; Pogostost izpostavitve: Kratkotrajna, sistemski učinek
Strokovni delavec: 40 mg/kg; Uporabnik: 20 mg/kg

Način izpostavitve: Oralno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Uporabnik: 4 mg/kg

Način izpostavitve: Oralno, človek; Pogostost izpostavitve: Kratkotrajna, sistemski učinek
Uporabnik: 20 mg/kg

1-metoksi-2-propanol

CAS: 107-98-2 Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Strokovni delavec: 369 mg/m3; Uporabnik: 43.9 mg/m3

Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Kratkotrajna, lokalni učinek
Strokovni delavec: 553.5 mg/m3

Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Kratkotrajna, sistemski učinek
Strokovni delavec: 553.5 mg/m3

Način izpostavitve: Dermalno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Strokovni delavec: 183 mg/kg; Uporabnik: 78 mg/kg

Način izpostavitve: Oralno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Uporabnik: 3.3 mg/kg

2,2'-butiliminodietanol

CAS: 102-79-4 Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
delavec: 1.58 mg/m3; Uporabnik: 0.281 mg/m3

Način izpostavitve: Z vdihavanjem, človek; Pogostost izpostavitve: Dolgotrajna, lokalni učinek
delavec: 1.14 mg/m3; Uporabnik: 0.34 mg/m3

Način izpostavitve: Dermalno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
delavec: 7 mg/kg; Uporabnik: 2.5 mg/kg

Način izpostavitve: Oralno, človek; Pogostost izpostavitve: Dolgotrajna, sistemski učinek
Uporabnik: 0.25 mg/kg

8.2 Nadzor izpostavljenosti

Poskrbite za ustrezno prezračevanje. Kadar je to izvedljivo, je to mogoče doseči z uporabo nadomestnega prezračevanja in dobrim splošnim vsesavanjem.

Zaščita oči:

Očala s stranskimi varovali (EN 16321).

Zaščita kože:

Uporabljajte oblačila, primerna za popolno zaščito kože glede na dejavnost in izpostavljenost (EN 14605/EN 13982), npr. delovni kombinezon, predpasnik, zaščitna obutev, primerna oblačila.

Zaščita rok:

Ni materiala ali kombinacije materialov za rokavice, ki bi lahko zagotovili neomejeno odpornost na katero koli kombinacijo kemikalij ali proizvodov.

Za daljše ali večkratno rokovanje uporabite rokavice, odporne na kemikalije.

Ustrezne rokavice tipa (EN 374/EN 16523); Butil kavčuk (butil guma): debelina >= 0.4 mm; permeacijski čas >= 480 min. NBR (Nitrilkaučuk): debelina >= 0.4 mm; permeacijski čas >= 480 min

Izbira primernih rokavic ni odvisna samo od materiala, temveč tudi od drugih kakovostnih lastnosti, ki se razlikujejo od enega do drugega proizvajalca, in od načinov ter časov uporabe mešanice.

Zaščita dihalnih poti:

Če so delavci izpostavljeni koncentracijam nad mejnimi vrednostmi izpostavljenosti, morajo uporabljati primerne, certificirane dihalne aparate.

Kombinirana filtrirna naprava (EN 14387): maska s filtrom A-P2.

Nadzor izpostavljenosti okolja:

Glejte točko 6.2

Higienski in tehnični ukrepi

Glejte poglavje 7.

ODDELEK 9: Fizikalne in kemijske lastnosti

9.1 Podatki o osnovnih fizikalnih in kemijskih lastnostih

fizično stanje: Tekoče

Izgled: Tekoče

Barva: svetlo rumen

Vonj: značilnost

Prag vonja: N.D.

Tališče/ledišče: N.D.

Vrelišče ali začetno vrelišče in območje vrelišča: N.D.

Vnetljivost: ni gorljivo; ; Notranja evalvacija

Spodnja in zgornja meja eksplozivnosti: N.D.

Plamenišče: > 93°C (Notranja evalvacija)

Temperatura samovžiga: N.D.

Temperatura razgradnje: N.D.

pH: >=10.90<=11.90 (Interna metoda)

Kinematična viskoznost: ≤ 20.5 mm²/s (40 °C)

Gostota in/ali relativna gostota: 1.01 ± 0.01 kg/l (Interna metoda)

Relativna parna gostota: N.D.

Parni tlak: N.D.

Topnost v vodi: mešljiv v vseh razmerjih

Topnost v olju: Podatki niso na voljo

Porazdelitveni koeficient n-oktanol/voda (logaritemska vrednost): ni znano

Lastnosti delcev:

Velikost delcev: ni znano

9.2 Drugi podatki

Prevodnost: N.D.

Eksplozivne lastnosti: N.D.

Oksidativne lastnosti: N.D.

HOS % (2010/75/EU): 28.00

ODDELEK 10: Obstojnost in reaktivnost

10.1 Reaktivnost

Stabilen v normalnih pogojih

10.2 Kemijska stabilnost

Stabilen v normalnih pogojih

10.3 Možnost poteka nevarnih reakcij

Nobeden.

10.4 Pogoji, ki se jim je treba izogniti

Izogibajte se bližine toplotnih virov.

10.5 Nezdružljivi materiali

Nobeno posebej.

10.6 Nevarni produkti razgradnje

V primeru pravilnega skladiščenja in ravnanja ne pride do razvoja nevarnih produktov razgradnje.

Glejte točko 5.2

ODDELEK 11: Toksikološki podatki

11.1 Podatki o razredih nevarnosti, kakor so opredeljeni v Uredbi (ES) št. 1272/2008

Toksikološki podatki izdelka:

a) akutna strupenost	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
b) jedkost za kožo/draženje kože	Ni klasificirano

	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
c) resne okvare oči/draženje	Proizvod je razvrščen: Eye Irrit. 2(H319)
d) preobčutljivost pri vdihavanju in preobčutljivost kože	Proizvod je razvrščen: Skin Sens. 1(H317)
e) mutagenost za zarodne celice	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
f) rakotvornost	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
g) strupenost za razmnoževanje	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
h) STOT - enkratna izpostavljenost	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
i) STOT - ponavljajoča se izpostavljenost	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.
j) nevarnost pri vdihavanju	Ni klasificirano
	Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Toksikološki podatki glavnih snovi, ki jih najdemo v izdelku:

benzil alkohol

CAS: 100-51-6	a) akutna strupenost	ATE - Oralno: 1200 mg/kg tt
		LD50 Vdihavanje Podgana > 4178 mg/m3 4h

1-metoksi-2-propanol

CAS: 107-98-2	a) akutna strupenost	LD50 Oralno Podgana 4016 mg/kg
		LD50 Koža Podgana > 2000 mg/kg
		LC50 Vdihavanje hlapov Podgana > 7000 ppm 6h

2,2'-butiliminodietanol

CAS: 102-79-4	a) akutna strupenost	LD50 Oralno Podgana 4800 mg/kg
		LD50 Koža Zajec > 2000 mg/kg

11.2 Podatki o drugih nevarnostih

Lastnosti endokrinih motilcev:

Ni endokrinih motilcev v koncentraciji > = 0,1%.

ODDELEK 12: Ekološki podatki

Uporabljajte v skladu z dobrimi delovnimi navadami, izogibajte se odlaganju izdelka v okolju.

12.1 Strupenost

Ekotoksikološki podatki:

Ekotoksikoloških lastnosti izdelka

Ni razvrščeno kot nevarno za okolje

Za izdelek ni razpoložljivih podatkov

Seznam sestavin z ekotoksikološkimi lastnostmi

benzil alkohol

CAS: 100-51-6	a) akutna strupenost za vodno okolje: LC50 Riba 460 mg/l 96h
	a) akutna strupenost za vodno okolje: EC50 Vodna bolha 230 mg/l 48h
	a) akutna strupenost za vodno okolje: EC50 Alge 770 mg/l 72h
	b) kronična strupenost za vodno okolje: NOEC Vodna bolha 51 mg/l 21d

1-metoksi-2-propanol

CAS: 107-98-2	a) akutna strupenost za vodno okolje: LC50 Riba 6812 mg/l 96h
	a) akutna strupenost za vodno okolje: EC50 Vodna bolha 23300 mg/l 48h
	a) akutna strupenost za vodno okolje: EC50 Alge > 1000 mg/l 7d

2,2'-butiliminodietanol

CAS: 102-79-4	a) akutna strupenost za vodno okolje: LC50 Riba > 316 mg/l 96h
	a) akutna strupenost za vodno okolje: EC50 Vodna bolha > 100 mg/l 48h

a) akutna strupenost za vodno okolje: ErC50 Alge 100 mg/l 72h

b) kronična strupenost za vodno okolje: NOEC Vodna bolha 4.4 mg/l 21d

12.2 Obstojnost in razgradljivost

benzil alkohol

CAS: 100-51-6 Hitro razgradljivo

1-metoksi-2-propanol

CAS: 107-98-2 Hitro razgradljivo

12.3 Zmožnost kopičenja v organizmih

ni znano

12.4 Mobilnost v tleh

ni znano

12.5 Rezultati ocene PBT in vPvB

Na podlagi razpoložljivih podatkov, preparat ne vsebuje snovi PBT/vPvB v procentu ≥ 0.1%.

12.6 Lastnosti endokrinih motilcev

Ni endokrinih motilcev v koncentraciji > = 0,1%.

12.7 Drugi škodljivi učinki

ni znano

ODDELEK 13: Odstranjevanje

13.1 Metode ravnanja z odpadki

Če je mogoče, predelajte. Ravnajte se po lokalnih in državnih normah.

Ne dopustite, da pride v kanalizacijo ali vodne poti.

Odstraniti posode, ki jih kontaminira izdelka v skladu z lokalnimi ali nacionalnimi predpisi.

Ko izdelku poteče življenjska doba, ga odstranite v skladu z veljavno zakonodajo.

ODDELEK 14: Podatki o prevozu

Blago ni nevarno smislu normativ o transportu.

14.1 Številka ZN in številka ID

N/A

14.2 Pravilno odpremno ime ZN

ADR-uradno ime blaga: N/A

IATA-uradno ime blaga: N/A

IMDG-uradno ime blaga: N/A

14.3 Razredi nevarnosti prevoza

ADR-Razred: N/A

IATA-razred: N/A

IMDG-razred: N/A

14.4 Skupina embalaže

ADR-embalažna skupina: N/A

IATA-embalažna skupina: N/A

IMDG-embalažna skupina: N/A

14.5 Nevarnosti za okolje

Onesnaževalec morja: Ne

Onesnažuje okolje po: Ne

IMDG-EMS: N/A

14.6 Posebni previdnostni ukrepi za uporabnika

Cestni in železniški transport (ADR-RID):

ADR izvzeto:

ADR-nalepka nevarnosti: N/A

ADR - Identifikacijska številka nevarnosti: N/A

ADR-posebni ukrepi: N/A

ADR-Pravilnik o cestnem prevozu nevarnega blaga:

Zračni transport (IATA):

IATA-potniška letala: N/A

IATA-tovorna letala: N/A

IATA-nalepka: N/A

IATA-dodatne nevarnosti: N/A

IATA-Erg: N/A

IATA-posebni ukrepi: N/A

Morski transport (IMDG):

IMDG-Zlaganje in ravnanje: N/A

IMDG-Segregacija: N/A

IMDG-dodatne nevarnosti: N/A

IMDG-posebni ukrepi: N/A

14.7 Pomorski prevoz v razsutem stanju v skladu z instrumenti IMO

ni znano

ODDELEK 15: Zakonsko predpisani podatki

15.1 Predpisi/zakonodaja o zdravju, varnosti in okolju, specifični za snov ali zmes

Dir. 98/24/ES (Varovanje delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu)
Dir. 2000/39/ES (mejne vrednosti za poklicno izpostavljenost)
Direktiva 2010/75/EU
Uredba (ES) št. 1907/2006 (REACH)
Uredba (ES) št. 1272/2008 (CLP)
Uredba (ES) št. 790/2009 (1. ATP CLP) in (EU) št. 758/2013
Uredba (EU) 2020/878
Uredba (EU) št. 286/2011 (2. ATP CLP)
Uredba (EU) št. 618/2012 (3. ATP CLP)
Uredba (EU) št. 487/2013 (4. ATP CLP)
Uredba (EU) št. 944/2013 (5. ATP CLP)
Uredba (EU) št. 605/2014 (6. ATP CLP)
Uredba (EU) 2015/1221 (7. ATP CLP)
Uredba (EU) 2016/918 (8. ATP CLP)
Uredba (EU) 2016/1179 (9. ATP CLP)
Uredba (EU) 2017/776 (10. ATP CLP)
Uredba (EU) 2018/669 (11. ATP CLP)
Uredba (EU) 2018/1480 (13. ATP CLP)
Uredba (EU) 2019/521 (12. ATP CLP)
Uredba (EU) 2020/217 (14. ATP CLP)
Uredba (EU) 2020/1182 (15. ATP CLP)
Uredba (EU) 2021/643 (16. ATP CLP)
Uredba (EU) 2021/849 (17. ATP CLP)
Uredba (EU) 2022/692 (18. ATP CLP)
Uredba (EU) 2023/707
Uredba (EU) 2023/1434 (19. ATP CLP)
Uredba (EU) 2023/1435 (20. ATP CLP)
Uredba (EU) 2024/197 (21. ATP CLP)

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

Omejitve v zvezi z izdelkom: 3

Omejitve v zvezi z vsebovanimi snovmi: 30 (CAS 1589-47-5), 40, 75

Določbe v zvezi z direktivo EU 2012/18 (Seveso III)

Nobena

Uredba (EU) št. 649/2012 (uredba PIC)

Snovi niso navedene

Nemški razred nevarnosti za vodo.

Razred 1: rahlo ogroža vodo.

SVHC snovi:

Na podlagi razpoložljivih podatkov, preparat ne vsebuje snovi SVHC v procentu ≥ 0.1%.

15.2 Ocena kemijske varnosti

Ocena kemijske varnosti ni bila opravljena za zmes.

ODDELEK 16: Drugi podatki

Številka	Opis
H226	Vnetljiva tekočina in hlapi.

H302	Zdravju škodljivo pri zaužitju.
H317	Lahko povzroči alergijski odziv kože.
H318	Povzroča hude poškodbe oči.
H319	Povzroča hudo draženje oči.
H336	Lahko povzroči zaspanost ali omotico.

Številka	**Razred in kategorija nevarnosti**	**Opis**
2.6/3	Flam. Liq. 3	Vnetljiva tekočina, Kategorija 3
3.1/4/Oral	Acute Tox. 4	Akutna strupenost (oralno), Kategorija 4
3.3/1	Eye Dam. 1	Hude poškodbe oči, Kategorija 1
3.3/2	Eye Irrit. 2	Draženje oči, Kategorija 2
3.4.2/1	Skin Sens. 1	Preobčutljivost kože, Kategorija 1
3.4.2/1B	Skin Sens. 1B	Preobčutljivost kože, Kategorija 1B
3.8/3	STOT SE 3	Specifična strupenost za ciljne organe (STOT) – enkratna izpostavljenost STOT enkrat, Kategorija 3

Razvrstitev in postopek, uporabljen za izpeljavo razvrstitve za zmesi v skladu z Uredbo (ES) 1272/2008 [uredba CLP]:

Razvrstitev v skladu z Uredbo (ES) št. 1272/2008	**Postopek razvrščanja**
Eye Irrit. 2, H319	metoda izračuna
Skin Sens. 1, H317	metoda izračuna

Ta dokument je pripravila pristojna oseba, ki je ustrezno usposobljena

Glavni bibliografski viri:

ECDIN – Informacijska mreža za okoljske podatke za kemikalije – Skupno raziskovalno središče, Komisija Evropskih skupnosti

SAX – NEVARNE LASTNOSTI INDUSTRIJSKIH MATERIALOV – 8. izdaja – Van Nostrand Reinold

Varnostni listi dobaviteljev surovin.

Predstavljene informacije se nanašajo na naše znanje v zgoraj navedenem datumu. Nanašajo se zgolj na omenjeni izdelek in ne predstavljajo garancije za posebno kakovost.

Uporabnik je dolžan preveriti pravilnost in popolnost teh informacij glede na svojo specifično uporabo.

Ta list razveljavlja in nadomešča vsako predhodno izdajo

Legenda okrajšav in kratic, uporabljenih v varnostnem listu:

ACGIH: Ameriška konferenca vladnih industrijskih higienikov

ADR: Evropski sporazum o mednarodnem prevozu nevarnih snovi v cestnem prometu.

ATE: Ocena akutne strupenosti

ATEmix: Ocena akutne strupenosti (Zmesi)

BEI: Biološki indeks izpostavljenosti

CAS: Chemical Abstracts Service (oddelek Ameriškega kemijskega društva).

CAV: Center za zastrupitve

CE: Evropska skupnost

CLP: Razvrščanje, etiketiranje, pakiranje.

CMR: Rakotvorno, mutageno in strupeno za razmnoževanje

COV: Hlapna organska spojina

CSA: Ocena kemijske varnosti

CSR: Poročilo o kemijski varnosti

DNEL: Izpeljane vrednosti brez učinka.

EC50: Srednja učinkovita koncentracija

ECHA: Evropska agencija za kemikalije

EINECS: Evropski seznam obstoječih snovi.

ES: Scenarij izpostavljenosti

GefStoffVO: Odlok o nevarnih snoveh, Nemčija.

GHS: Globalno poenoten sistem razvrščanja in označevanja nevarnih kemikalij.

IARC: Mednarodna agencija za raziskovanje raka

IATA: Mednarodno združenje za zračni transport.

IC50: Srednja inhibitorna koncentracija

IMDG: Mednarodni kodeks za prevoz nevarnega blaga po morju

LC50: Letalna koncentracija za 50 odstotkov testne populacije.

LD50: Letalna doza za 50 odstotkov testne populacije.

LDLo: Najnižja smrtna doza

N.A.: Se ne uporablja

N/A: Se ne uporablja

N/D: Ni opredeljeno/Ni razpoložljiv

N.D.: Ni razpoložljiv
NIOSH: Nacionalni inštitut za varnost in zdravje pri delu
NOAEL: Raven brez opaznih negativnih vplivov
OSHA: Upravljanje varnosti in zdravja pri delu
PBT: Obstojne, se kopičijo v organizmih in so strupene
PGK: Navodila za embalažo nevarnih snovi
PNEC: Predvidena koncentracija brez učinka.
PSG: Potniki
RID: Pravilnik o mednarodnem prevozu nevarnega blaga po železnici.
STEL: Meja za kratkotrajno izpostavljenost.
STOT: Specifično strupeno za ciljne organe.
TLV: Mejna vrednost izpostavljenosti.
TLV-TWA: Mejna vrednost izpostavljenosti v časovnem obdobju po 8 ur dnevno (ACGIH standard).
vPvB: Telo obstojno, se zelo lahko kopiči v organizmih.
WGK: Nemški razred nevarnosti za vodo.

Odstavki spremenjeni od prejšnje revizije:

- ODDELEK 2: Določitev nevarnosti
- ODDELEK 3: Sestava/podatki o sestavinah
- ODDELEK 8: Nadzor izpostavljenosti/osebna zaščita
- ODDELEK 9: Fizikalne in kemijske lastnosti
- ODDELEK 11: Toksikološki podatki
- ODDELEK 12: Ekološki podatki
- ODDELEK 16: Drugi podatki

1-methoxy-2-propanol

Substance identification
Chemical Name: 1-methoxy-2-propanol
CAS number: 107-98-2
Date - Version: 08/10/2019- 17.0

USE IN COATINGS (USE IN INDUSTRIAL PLANTS).

TITLE SECTION

Short title of the exposure scenario: Use in coatings. (Use in industrial plants).
ERC4; PROC1, PROC7, PROC8a, PROC8b, PROC9

EXPOSURE SCENARIO CONSIDERED - ERC4

Covered use descriptors
ERC4: Industrial use of processing aids not becoming part of articles.

Operating conditions
Yearly amount used in EU: 63,050,000 kg
Daily amount per site: 105,087 kg
Minimum emission days per year: 300
Emission factor to air: 27 %
Emission factor in water: 2 %
Emission factor in soil: 0.1 %
Releases based on A&B tables from TGD 2003
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures
Treat air emissions to provide a typical removal efficiency of (%). 70 %
Prevent discharge of undissolved substance, or recover from wastewater.
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste
Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source
Risk Characterization Ratio (RCR): 0,1338
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 79,180 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by water.

EXPOSURE SCENARIO CONSIDERED - PROC1

Covered use descriptors
PROC1: Use in closed process, no likelihood of exposure.
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days a week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 0.04 mg/m³
Risk Characterization Ratio (RCR): 0,0001
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Estimation of exposure 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC7

Covered use descriptors
PROC7: Industrial spray application Spraying (automatic/robotic)
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days a week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Carry out in a vented booth or extracted enclosure. Effectiveness: 95%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 46.93 mg/m³
Risk Characterization Ratio (RCR): 0.13
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 2.14 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.04

EXPOSURE SCENARIO CONSIDERED - PROC7

Covered use descriptors
PROC7: Industrial spray application Spraying (manual)
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week

Risk management measures
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Effectiveness: 70%
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 281.56 mg/m³
Risk Characterization Ratio (RCR): 0.76
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 8.57 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.17

EXPOSURE SCENARIO CONSIDERED - PROC8a

Covered use descriptors
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Non-dedicated system.
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0.51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC8b

Covered use descriptors
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Dedicated plant.
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0.51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC9

Covered use descriptors
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Material transfers. Drum/batch transfers. Transfer from containers. Dedicated plant.
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC7

Covered use descriptors
PROC7: Industrial spray application Spraying (automatic/robotic) Spraying (manual)
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 5% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0.51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 8.57 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.17

EXPOSURE SCENARIO CONSIDERED - PROC7

Covered use descriptors
PROC7: Industrial spray application Spraying (manual)
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - ≤ 5% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Wear suitable gloves compliant with EN 374.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC8a

Covered use descriptors
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers Non-dedicated system
Area of use: industrial

Operating conditions
Substance concentration: ≥ 0% - < 5% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1

USE IN COATINGS (USE IN INDUSTRIAL PLANTS).

TITLE SECTION

Short title of the exposure scenario: Use in coatings. (Use in industrial plants).
ERC8a, ERC8d; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

EXPOSURE SCENARIO CONSIDERED - ERC8a

Covered use descriptors

ERC8a: Wide dispersive indoor use of processing aids in open systems.

Operating conditions

Yearly amount used in EU: 2,600,000 kgs
Daily amount per site: 433 kg
Minimum emission days per year: 300
Emission factor to air: 80 %
Emission factor in water: 10 %
Emission factor in soil: 0.1 %
Releases based on A&B tables from TGD 2003
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures

Prevent discharge of undissolved substance, or recover from wastewater.
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste

Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source

Risk Characterization Ratio (RCR): 0,029
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 15,141 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - ERC8d

Covered use descriptors

ERC8d: Wide dispersive external use of processing aids in open systems.

Operating conditions

Yearly amount used in EU: 2,600,000 kgs
Daily amount per site: 433 kg
Minimum emission days per year: 300
Emission factor to air: 80 %
Emission factor in water: 10 %
Emission factor in soil: 0.1 %
Releases based on A&B tables from TGD 2003
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures

Prevent discharge of undissolved substance, or recover from wastewater.
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste

Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source

Risk Characterization Ratio (RCR): 0.029
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 15.141 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - PROC1

Covered use descriptors

PROC1: Use in closed process, no likelihood of exposure.
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 0.04 mg/m³
Risk Characterization Ratio (RCR): 0.0001
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Estimation of exposure 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC2

Covered use descriptors
PROC2: Use in closed, continuous process with occasional controlled exposure. Filling/Preparation of equipment required for drums and containers.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
The use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC2

Covered use descriptors
PROC2: Use in closed, continuous process with occasional controlled exposure. General exposure. Use in confined systems (closed system). Filling/Preparation of equipment required for drums and containers.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 1.37 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.03

EXPOSURE SCENARIO CONSIDERED - PROC3

Covered use descriptors
PROC3: Use in batch process (synthesis or formulation): Preparation of material for application
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 93.85 mg/m³
Risk Characterization Ratio (RCR): 0.25
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Film formation. Air drying.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0,51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Film formation. Air drying.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor: Indoor use.
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
The use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC5

Covered use descriptors
PROC5: Mixing in batch processes for formulation of preparations and articles (multistage and/or significant contact). Preparation of material for application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour): Effectiveness: 30%
Otherwise, ensure that operations are carried out externally.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC5

Covered use descriptors
PROC5: Mixing in batch processes for formulation of preparations and articles (multistage and/or significant contact). Preparation of material for application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Ensure that operations are carried out externally.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC8a

Covered use descriptors
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Drum/batch transfers. Non-dedicated system.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Effectiveness: 30%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0,27

EXPOSURE SCENARIO CONSIDERED - PROC8b

Covered use descriptors
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Drum/batch transfers Dedicated plant.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0.51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Roller, spatula, jet application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Effectiveness: 30%
Wear suitable gloves compliant with EN 374. Effectiveness: 80%
If there is no general ventilation, ensure that operations are carried out outdoors.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 5.49 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.11

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes Roller, spatula, jet application
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally.
Wear suitable gloves compliant with EN 374.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Spraying (manual).
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor: Indoor use.
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Carry out in a vented booth or extracted enclosure. Effectiveness: 80%
Wear a respirator conforming to EN140 with type A filter or better. Effectiveness: 90%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 2.14 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.04

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Spraying (manual).
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally. Effectiveness: 30%
Wear a respirator conforming to EN140 with type A filter or better. Effectiveness: 90%
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 131.4 mg/m³
Risk Characterization Ratio (RCR): 0.36
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 21.43 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.42

EXPOSURE SCENARIO CONSIDERED - PROC13

Covered use descriptors
PROC13: Treatment of articles by dipping, pouring, enamelling.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Effectiveness: 30%
Otherwise, ensure that operations are carried out externally.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC13

Covered use descriptors
PROC13: Treatment of articles by dipping and pouring.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC15

Covered use descriptors
PROC15: Use as laboratory reagent. Laboratory activities.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC19

Covered use descriptors
PROC19: Manual mixing with direct contact using only personal protective equipment. Hand application - fingerpaints, pastels, adhesives.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Effectiveness: 30%
Wear chemically resistant gloves in combination with “basic” employee training. Effectiveness: 90%
If there is no general ventilation, ensure that operations are carried out outdoors.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 14.14 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.28

EXPOSURE SCENARIO CONSIDERED - PROC19

Covered use descriptors
PROC19: Manual mixing with direct contact using only personal protective equipment. Hand application - fingerpaints, pastels, adhesives.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100% 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally.
Wear chemically resistant gloves in combination with “basic” employee training.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

USE IN COATINGS (USE IN INDUSTRIAL PLANTS).

TITLE SECTION

Short title of the exposure scenario: Use in coatings. (Use in industrial plants).
ERC8a, ERC8b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

EXPOSURE SCENARIO CONSIDERED - ERC8a

Covered use descriptors

ERC8a: Wide dispersive indoor use of processing aids in open systems.

Operating conditions

Yearly amount used in EU: 2,600,000 kgs
Daily amount per site: 433 kg
Minimum emission days per year: 300
Emission factor to air: 80 %
Emission factor in water: 10 %
Emission factor in soil: 0.1 %
Releases based on A&B tables from TGD 2003
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures

Prevent discharge of undissolved substance, or recover from wastewater.
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste

Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source

Risk Characterization Ratio (RCR): 0.029
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 15.141 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - ERC8d

Covered use descriptors

ERC8d: Wide dispersive external use of processing aids in open systems.

Operating conditions

Yearly amount used in EU: 2,600,000 kgs
Daily amount per site: 433 kg
Minimum emission days per year: 300
Emission factor to air: 80 %
Emission factor in water: 10 %
Emission factor in soil: 0.1 %
Releases based on A&B tables from TGD 2003
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures

Prevent discharge of undissolved substance, or recover from wastewater.
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste

Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source

Risk Characterization Ratio (RCR): 0.029
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 15.141 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - PROC1

Covered use descriptors

PROC1: Use in closed process, no likelihood of exposure. General exposure (closed systems)
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source

PROC1
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC2

Covered use descriptors

PROC2: Use in closed, continuous process with occasional controlled exposure. Filling/Preparation of equipment required for drums and containers.
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source

Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC2

Covered use descriptors

PROC2: Use in closed, continuous process with occasional controlled exposure. General exposure. Use in confined systems (closed system). Filling/Preparation of equipment required for drums and containers.
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source

Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 15.02 mg/m³
Risk Characterization Ratio (RCR): 0.04
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 1.37 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.03

EXPOSURE SCENARIO CONSIDERED - PROC3

Covered use descriptors

PROC3: Use in batch process (synthesis or formulation) Preparation of material for application
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source

Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 18.77 mg/m³
Risk Characterization Ratio (RCR): 0.05
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors

PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Film formation. Air drying.
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source

Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Film formation. Air drying.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor: Indoor use.
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC5

Covered use descriptors
PROC5: Mixing in batch processes for formulation of preparations and articles (multistage and/or significant contact). Preparation of material for application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic.
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC5

Covered use descriptors
PROC5: Mixing in batch processes for formulation of preparations and articles (multistage and/or significant contact). Preparation of material for application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Risk management measures
Ensure that operations are carried out externally.

Exposure estimation and reference to its source
PROC5
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC8a

Covered use descriptors
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Drum/batch transfers. Non-dedicated system.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13,71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC8b

Covered use descriptors
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Material transfers. Drum/batch transfers Dedicated plant.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 37.54 mg/m³
Risk Characterization Ratio (RCR): 0.1
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Roller, spatula, jet application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 27.43 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.54

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Roller, spatula, jet application.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor: Outdoor use
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
PROC10
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Spraying (manual).
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Effectiveness: 30%
Wear chemically resistant gloves in combination with “basic” employee training. Effectiveness: 90%
If there is no general ventilation, ensure that operations are carried out outdoors.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 10.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.21

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Spraying (manual).
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally.
Wear chemically resistant gloves in combination with “basic” employee training.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC13

Covered use descriptors
PROC13: Treatment of articles by dipping and pouring.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC13

Covered use descriptors
PROC13: Treatment of articles by dipping and pouring.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor: Internal use
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
PROC13
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC15

Covered use descriptors
PROC15: Use as a laboratory reagent Laboratory activities
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 7.51 mg/m³
Risk Characterization Ratio (RCR): 0.02
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC19

Covered use descriptors
PROC19: Manual mixing with direct contact using only personal protective equipment. Hand application, finger paints, crayons, stickers
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 28.29 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.56

EXPOSURE SCENARIO CONSIDERED - PROC19

Covered use descriptors
PROC19: Manual mixing with direct contact using only personal protective equipment. Hand application - fingerpaints, pastels, adhesives.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor Outdoor use
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Wear suitable gloves compliant with EN 374.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
If the operating conditions identified and risk management measures are applied, the use has been assessed as safe.

USE IN DETERGENTS (USE IN INDUSTRIAL PLANTS).

TITLE SECTION

Short title of the exposure scenario: Use in detergents. (Use in industrial plants).
ERC8a, ERC8d; PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

EXPOSURE SCENARIO CONSIDERED - ERC8a

Covered use descriptors
ERC8a: Wide dispersive indoor use of processing aids in open systems.

Operating conditions
Yearly amount used in EU: 5,200,000 kg
Daily amount per site: 0.71 kg
Minimum emission days per year: 365
Emission factor to air: 2 %
Emission factor in water: 0.001 %
Emission factor in soil: 0 %
Releases based on information from ESVOC/CEFIC
Freshwater dilution factor: 10
Marine water dilution factor: 100

Risk management measures
Treat air emissions to provide a typical removal efficiency of (%) 70 %
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste
Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source
Risk Characterization Ratio (RCR): 0.00138
Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 550 kg/day
Risk from environmental exposure is driven by fresh water. Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - ERC8d

Covered use descriptors
ERC8d: Wide dispersive external use of processing aids in open systems.

Operating conditions
Yearly amount used in EU: 5,200,000 kg
Daily amount per site: 0.71 kg
Minimum emission days per year: 365
Emission factor to air: 2 %
Emission factor in water: 0.001 %
Emission factor in soil: 0 %
Releases based on information from ESVOC/CEFIC
Freshwater dilution factor: 10
Marine water dilution factor: 100
Other factors: Outdoor use.

Risk management measures
Treat air emissions to provide a typical removal efficiency of (%) 70 %
Type of treatment plant: Municipal sewage treatment plant.
Total removal efficiency of the substance from the waste water after risk management measures and treatment in the treatment plant: 87.3 %
Assumed sewage treatment plant flow: 2,000 m³/d

Measures relative to the waste
Dispose of waste cans and containers according to local regulations.

Exposure estimation and reference to its source
Risk Characterization Ratio (RCR): 0.00138
Risk from environmental exposure is driven by marine water.
Maximum safe use amount: 550 kg/day
Risk from environmental exposure is driven by marine water.

EXPOSURE SCENARIO CONSIDERED - PROC2

Covered use descriptors
PROC2: Use in closed, continuous process with occasional controlled exposure. Automated process with (semi) closed systems. Use in contained systems.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0,2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 1.37 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.03

EXPOSURE SCENARIO CONSIDERED - PROC3

Covered use descriptors
PROC3: Use in batch process (synthesis or formulation). Use in contained systems. Drum/batch transfers. Automated process with (semi) closed systems.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 93.85 mg/m³
Risk Characterization Ratio (RCR): 0.25
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 0.34 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.01

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Semi-automatic process. Application of cleaning products in closed systems. Cleaning of medical devices.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0,51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Application of cleaning products in closed systems.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
The use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC4

Covered use descriptors
PROC4: Use in batch and other processes (synthesis) where opportunity for exposure arises. Cleaning of medical devices.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility.
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
PROC4
Evaluation method: ESIG GES tool, operator. Workers - all relevant routes of exposure.
The use has been assessed as safe.

EXPOSURE SCENARIO CONSIDERED - PROC8a

Covered use descriptors
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Filling/Preparation of equipment required for drums and containers. Non-dedicated system.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 240 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally. Effectiveness: 30%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 157.68 mg/m³
Risk Characterization Ratio (RCR): 0.43
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

EXPOSURE SCENARIO CONSIDERED - PROC8b

Covered use descriptors
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities. Filling/Preparation of equipment required for drums and containers. Dedicated plant.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 187.71 mg/m³
Risk Characterization Ratio (RCR): 0.51
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 6.86 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.14

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Low pressure cleaning with detergents.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Effectiveness: 70%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 112.63 mg/m³
Risk Characterization Ratio (RCR): 0.31
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 27.43 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.54

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Surface cleaning (manual) by fogging.
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Effectiveness: 30%
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 5.49 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.11

EXPOSURE SCENARIO CONSIDERED - PROC10

Covered use descriptors
PROC10: Application with rollers or brushes. Manual application by fogging, dipping etc. Rolling/brushing
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide extract ventilation in points where emissions occur (LEV). Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 75.08 mg/m³
Risk Characterization Ratio (RCR): 0.2
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 27.43 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.54

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Cleaning with high pressure washers
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
Indoor/Outdoor Internal use
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Effectiveness: 70%
Wear suitable gloves compliant with EN 374. Effectiveness: 80%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 112.63 mg/m³
Risk Characterization Ratio (RCR): 0.31
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 21.43 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.42

EXPOSURE SCENARIO CONSIDERED - PROC11

Covered use descriptors
PROC11: Non-industrial spray application. Cleaning with high pressure washers
Area of use: professional

Operating conditions
Substance concentration: ≥ 0% - ≤ 5 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures
Ensure that operations are carried out externally. Effectiveness: 30%
Wear chemically resistant gloves in combination with “basic” employee training. Effectiveness: 90%

Exposure estimation and reference to its source
Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 262.79 mg/m³
Risk Characterization Ratio (RCR): 0.71
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 10.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.21

EXPOSURE SCENARIO CONSIDERED - PROC13

Covered use descriptors

PROC13: Treatment of articles by dipping and pouring. Surface cleaning (manual). Enamelling, dipping and pouring.
Area of use: professional

Operating conditions

Substance concentration: ≥ 0% - ≤ 100 % 1-methoxy-2-propanol
Physical state: liquid, medium volatility
Duration and frequency of application: 480 mins. 5 days/week
It is assumed that the use does not exceed 20°C ambient temperature.

Risk management measures

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Effectiveness: 70%

Exposure estimation and reference to its source

Evaluation method: ESIG GES tool, operator. Worker - inhalation, long-term - systemic
Exposure estimation: 112.63 mg/m³
Risk Characterization Ratio (RCR): 0.31
Evaluation method: ESIG GES tool, operator. Worker - dermal, long term - systemic
Exposure estimation: 13.71 mg/kg/day (body weight)
Risk Characterization Ratio (RCR): 0.27

2,2'-butyliminodiethanol

Substance identification
Chemical Name: 2,2'-butyliminodiethanol
CAS number: 102-79-4
Date - Version: 17/06/2025

INDUSTRIAL USE

Use in paints/coatings
Environment: ERC4
Worker : PROC1, PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

CONDITIONS AFFECTING EXPOSURE

Environmental exposure control: Industrial use of processing aids not becoming part of articles. ERC4

Product features (article)
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Annual amount per site: <125 tonnes/year

Conditions and measures related to external recovery of waste
STP Type: Municipal wastewater treatment plant

Conditions and measures for waste treatment (including the article of waste)
Waste treatment: Dispose of waste product or used containers according to local regulations.

Other conditions concerning environmental exposure
Internal use

Worker Exposure Control: Use in closed process, exposure unlikely PROC1

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Annual amount per site: <400 tonnes/year
Duration: <8 h

Organizational and technical measures and conditions
Closed systems
Provide a good standard of general ventilation (1 to 3 air changes per hour).

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear suitable gloves tested to EN374.
Dermal: Minimum efficiency of 80%.

Other conditions concerning worker exposure
Body parts exposed: The palm of a hand (240 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Use in a closed, continuous process with occasional controlled exposure PROC2

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Annual amount per site: <400 tonnes/year
Duration: <8 h

Organizational and technical measures and conditions
Closed systems
Provide a good standard of general ventilation (1 to 3 air changes per hour).
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear suitable gloves tested to EN374.
Dermal: Minimum efficiency of 80%.

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Use in a closed batch process (synthesis or formulation) PROC3

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Closed systems
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear suitable gloves tested to EN374.
Dermal: Minimum efficiency of 80%.

Other conditions concerning worker exposure
Body parts exposed: The palm of a hand (240 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Mixing or blending in batch processes for formulation of preparations and articles (contact at different stages and/or important contact) PROC5

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: minimum efficiency of 95%

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Industrial spray application PROC7

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: minimum efficiency of 95%

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield 95%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: Both hands and main arm parts
Internal use
Temperature: < 40°C

Worker Exposure Control: Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at dedicated facilities. PROC8a/PROC8b

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Local exhaust ventilation
Inhalation: minimum efficiency of 80%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: Both hands (960 cm²).
Internal use
Temperature: < 40°C
Room size: > 30m³
Ventilation rate per hour: 1

Worker Exposure Control: Transfer of chemicals into small containers (dedicated filling line) PROC9

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Local exhaust ventilation
Inhalation: minimum efficiency of 80%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C
Room size: > 30m³
Ventilation rate per hour: 1

Worker Exposure Control: Application with rollers or brushes PROC10

Product features (article)
Covers up to 5% of the substance in the product
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: Both hands (960 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Treatment of articles by dipping and pouring PROC13

Product features (article)
Covers up to 5% of the substance in the product
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Use as laboratory reagent PROC15

Product features (article)
Covers the percentage of substance in the product up to 100%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: minimum efficiency of 95%

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8.

Other conditions concerning worker exposure
Body parts exposed: The palm of a hand (240 cm²).
Internal use
Temperature: < 40°C

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE

Release estimation method:

Worker exposure: Use in closed process, exposure unlikely PROC1

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.067 mg/m³	0.03
inhalation	local	Long-term	0.067 mg/m³	0.059
dermal	systemic	Long-term	0.007 mg/kg day	<0.01
combined routes	systemic	Long-term		0.035

Worker exposure: Use in a closed, continuous process with occasional controlled exposure PROC2

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.672 mg/m³	0.303
inhalation	local	Long-term	0.672 mg/m³	0.589
dermal	systemic	Long-term	0.138 mg/kg day	0.175
combined routes	systemic	Long-term		0.477

Worker exposure: Use in a closed batch process (synthesis or formulation) PROC3

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.605 mg/m³	0.272
inhalation	local	Long-term	0.605 mg/m³	0.53
dermal	systemic	Long-term	0.138 mg/kg day	0.088
combined routes	systemic	Long-term		0.36

Worker exposure: Mixing or blending in batch processes for formulation of preparations and articles (contact at different stages and/or important contact) PROC5

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.605 mg/m³	0.272
inhalation	local	Long-term	0.605 mg/m³	0.53
dermal	systemic	Long-term	0.343 mg/kg day	0.218
combined routes	systemic	Long-term		0.491

Worker exposure: Industrial spray application PROC7

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.605 mg/m³	0.272
inhalation	local	Long-term	0.605 mg/m³	0.53
dermal	systemic	Long-term	0.685 mg/kg day	0.137
combined routes	systemic	Long-term		0.409

Worker exposure: Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at dedicated facilities. PROC8a/PROC8b

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.57 mg/m³	0.257
inhalation	local	Long-term	0.57 mg/m³	0.5
dermal	systemic	Long-term	0.685 mg/kg day	0.437
combined routes	systemic	Long-term		0.693

Worker exposure: Transfer of chemicals into small containers (dedicated filling line) PROC9

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.19 mg/m³	0.086
inhalation	local	Long-term	0.19 mg/m³	0.167
dermal	systemic	Long-term	0.343 mg/kg day	0.218
combined routes	systemic	Long-term		0.304

Worker exposure: Application with rollers or brushes PROC10

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.403 mg/m³	0.182
inhalation	local	Long-term	0.403 mg/m³	0.354
dermal	systemic	Long-term	0.274 mg/kg day	0.175
combined routes	systemic	Long-term		0.356

Worker exposure: Treatment of articles by dipping and pouring PROC13

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.403 mg/m³	0.182
inhalation	local	Long-term	0.403 mg/m³	0.354
dermal	systemic	Long-term	0.137 mg/kg day	0.087
combined routes	systemic	Long-term		0.269

Worker exposure: Use as laboratory reagent PROC15

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.605 mg/m³	0.272
inhalation	local	Long-term	0.605 mg/m³	0.53
dermal	systemic	Long-term	0.34 mg/kg day	0.217
combined routes	systemic	Long-term		0.489

GUIDANCE FOR DOWNSTREAM USERS TO ASSESS WHETHER THEY COMPLY WITH THE LIMITS SET BY THE EXPOSURE SCENARIO

PROFESSIONAL USE

Use in paints/coatings
Environment: ERC8a/ERC8d
Worker : PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13

CONDITIONS AFFECTING EXPOSURE

Environmental exposure control: Wide dispersive indoor and outdoor use of reactive substances or processing aids in open systems ERC8a/ERC8d

Product features (article)
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Daily amount for wide dispersive uses: <0.07 mg/kg day

Conditions and measures related to external recovery of waste
STP Type: Municipal wastewater treatment plant

Conditions and measures for waste treatment (including the article of waste)
Waste treatment: Dispose of waste product or used containers according to local regulations.

Other conditions concerning environmental exposure
Indoor and outdoor use

Worker Exposure Control: Use in a closed batch process (synthesis or formulation) PROC3

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Closed systems
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear suitable gloves tested to EN374.
Dermal: Minimum efficiency of 80%.

Other conditions concerning worker exposure
Body parts exposed: The palm of a hand (240 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Mixing or blending in batch processes for formulation of preparations and articles (contact at different stages and/or important contact) PROC5

Product features (article)
Covers up to 5% of the substance in the product
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <1 h

Organizational and technical measures and conditions
Provide a good standard of general ventilation (5 to 10 air changes per hour).
Inhalation: minimum efficiency of 70%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: 90% minimum efficiency

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C

Worker Exposure Control: Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at dedicated facilities. PROC8a/PROC8b

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Organizational and technical measures and conditions
Local exhaust ventilation
Inhalation: minimum yield of 90%.

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: Both hands (960 cm²).
Internal use
Temperature: < 40°C
Room size: > 30m³
Ventilation rate per hour: 3

Worker Exposure Control: Transfer of chemicals into small containers (dedicated filling line) PROC9

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Dermal: 90% minimum efficiency

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm²).
Internal use
Temperature: < 40°C
Room size: > 30m³
Ventilation rate per hour: 1

Worker Exposure Control: Application with rollers or brushes PROC10

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: minimum efficiency of 95%

Other conditions concerning worker exposure
Body parts exposed: Both hands (960 cm²).
Internal use
Room size: > 30m³
Temperature: < 40°C

Worker Exposure Control: Non-industrial spray application PROC11

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: minimum efficiency of 95%

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Dermal: 90% minimum efficiency

Other conditions concerning worker exposure
Body parts exposed: Hands and forearms
Internal use
Room size: > 30m³
Temperature: < 40°C

Worker Exposure Control: Treatment of articles by dipping and pouring PROC13

Product features (article)
Covers a percentage of substance in the product up to 1%
Physical form of the product: liquid substance

Amounts used, frequency and duration of use (or useful life)
Duration: <8 h

Conditions and measures for personal protection, hygiene and health assessment
Wear safety goggles as described in section 8. Wear chemical resistant gloves (tested to EN374) and provide employees with basic training.
Dermal: 90% minimum efficiency

Other conditions concerning worker exposure
Body parts exposed: The palm of both hands (480 cm^2).
Internal use
Room size: > 30m^3
Temperature: < 40°C

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE

Release estimation method:

Worker exposure: Use in a closed batch process (synthesis or formulation) PROC3

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.605 mg/m^3	0.272
inhalation	local	Long-term	0.605 mg/m^3	0.53
dermal	systemic	Long-term	0.014 mg/kg day	<0.01
combined routes	systemic	Long-term		0.281

Worker exposure: Mixing or blending in batch processes for formulation of preparations and articles (contact at different stages and/or important contact) PROC5

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.806 mg/m^3	0.363
inhalation	local	Long-term	0.806 mg/m^3	0.707
dermal	systemic	Long-term	0.274 mg/kg day	0.175
combined routes	systemic	Long-term		0.538

Worker exposure: Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at dedicated facilities. PROC8a/PROC8b

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.023 mg/m^3	0.01
inhalation	local	Long-term	0.023 mg/m^3	0.02
dermal	systemic	Long-term	0.137 mg/kg day	0.087
combined routes	systemic	Long-term		0.098

Worker exposure: Transfer of chemicals into small containers (dedicated filling line) PROC9

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.004 mg/m^3	< 0.01
inhalation	local	Long-term	0.004 mg/m^3	< 0.01
dermal	systemic	Long-term	0.137 mg/kg day	0.437
combined routes	systemic	Long-term		0.439

Worker exposure: Application with rollers or brushes PROC10

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.12 mg/m^3	0.054
inhalation	local	Long-term	0.12 mg/m^3	0.105
dermal	systemic	Long-term	0.274 mg/kg day	0.175
combined routes	systemic	Long-term		0.229

Worker exposure: Non-industrial spray application PROC11

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.23mg/m³	0.104
inhalation	local	Long-term	0.23mg/m³	0.202
dermal	systemic	Long-term	1.071 mg/kg day	0.682
combined routes	systemic	Long-term		0.786

Worker exposure: Treatment of articles by dipping and pouring PROC13

Route of exposure	Health effect	Exposure indicator	Estimated exposure	RCR
inhalation	systemic	Long-term	0.14mg/m³	0.063
inhalation	local	Long-term	0.14mg/m³	0.123
dermal	systemic	Long-term	0.137 mg/kg day	0.087
combined routes	systemic	Long-term		0.15

GUIDANCE FOR DOWNSTREAM USERS TO ASSESS WHETHER THEY COMPLY WITH THE LIMITS SET BY THE EXPOSURE SCENARIO