

KERAKOVER ACRILEX PRIMER Date of first edition: 2/10/2022 Safety Data Sheet dated 06/05/2025

version 7

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

1.1. Product identifier

Mixture identification:

Trade name: KERAKOVER ACRILEX PRIMER

Trade code: S100FS231 12

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

Recommended use: primer

Uses advised against: All uses other than recommended ones 1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre,

Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

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

Contains

1,2-benzisothiazol-3(2H)-one; 1,2-

benzisothiazolin-3-one

Date 21/05/2025 **Production Name** KERAKOVER ACRILEX PRIMER Page n. 1 of reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Dir. 2004/42/EC (VOC directive)

Binding primers

EU limit value for this product (cat. A/h): 30 g/l

This product contains max 15.91 g/l VOC.

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

None.

2.3. Other hazards

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

Other Hazards: Contains biocidal product: BIT; C(M)IT/MIT (3:1); The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments. Possible skin exposure must be avoided. Protective gloves and work clothes are required. Avoid releasing product into the environment. When washing work equipment, water must not be dispersed in the soil or on surface water

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KERAKOVER ACRILEX PRIMER

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥1-<3 %	ethanediol; ethylene glycol	CAS:107-21-1 EC:203-473-3	Acute Tox. 4, H302; STOT RE 2, H373	01-2119456816-28
<0.05 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	EC:220-120-9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 2, H330 Skin Sens. 1A, H317 Aquatic Chronic 1, H410	01-2120761540-60
			Specific Concentration Limits: $C \ge 0.036\%$: Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 450mg/kg bw ATE - Inhalation (Dust/mist): 0.21mg/l	
<0.0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 2, H330 Acute Tox. 2, H310 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071	
			Specific Concentration Limits: $C \ge 0.6\%$: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 $C \ge 0.6\%$: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 $C \ge 0.0015\%$: Skin Sens. 1A H317	
<0.0015 %	2-Aminoethanol; ethanolamine	CAS:141-43-5 EC:205-483-3 Index:603-030-00-8	Skin Corr. 1B, H314 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332	
			Specific Concentration Limits: C ≥ 5%: STOT SE 3 H335	

SECTION 4: First aid measures

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4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

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

In case of Inhalation:

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

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

N.A.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

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

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

6.3. Methods and material for containment and cleaning up

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

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

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

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Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Community Occupationa	i Exposure Li	iiiits (OEL)	
	OEL Type	Country	Occupational Exposure Limit
ethanediol; ethylene glycol CAS: 107-21-1	ACGIH		Short Term: 10 mg/m3 I, H, A4 - URT irr
	EU		Long Term: 52 mg/m3 - 20 ppm (8h); Short Term: 104 mg/m3 - 40 ppm Skin
	NATIONAL	AUSTRIA	Long Term: 26 mg/m3 - 10 ppm; Short Term: Ceiling - 52 mg/m3 - 20 ppm 5(Mow), 8x, MAK, H Source: BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	CZECUTA	
	NATIONAL	CZLCIIIA	Long Term: 50 mg/m3; Short Term: Ceiling - 100 mg/m3 D
			Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	DENMARK	Long Term: 26 mg/m3 - 10 ppm
			EH Source: BEK nr 2203 af 29/11/2021
	NATIONAL	DENMARK	Long Term: 10 mg/m3
	NATIONAL	DENMARK	Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm
A, 18 Source: Vabariigi Valitsuse, 20. märtsi 2		A, 18	
		Source: Vabariigi Valitsuse, 20. martsi 2001. a maarus nr 105	
	NATIONAL	FINLAND	Long Term: 50 mg/m3 - 20 ppm; Short Term: 100 mg/m3 - 40 ppm iho
			Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Risque de pénétration percutanée Source: INRS outil65, arrêté du 30-06-2004 modifié
	NATIONAL	GREECE	Long Term: 125 mg/m3 - 50 ppm; Short Term: 125 mg/m3 - 50 ppm Source: ΦEK 94/A` 13.5.1999
	NATIONAL	HUNGARY	Long Term: 52 mg/m3; Short Term: 104 mg/m3
			b, i, EU1, N Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	LITHUANIA	Long Term: 25 mg/m3 - 10 ppm; Short Term: 50 mg/m3 - 20 ppm O, Šis RD taikomas bendrai garų ir aerozolio koncentracijai. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	NETHERLAND	Long Term: 52 mg/m3; Short Term: 104 mg/m3
		S	H Source: Arbeidsomstandighedenregeling - Lijst A
	NATIONAL	NETHERLAND S	Long Term: 10 mg/m3; Short Term: 104 mg/m3 H
			Source: Arbeidsomstandighedenregeling - Lijst A
	NATIONAL	NORWAY	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm H E 5 S Source: FOR-2021-06-28-2248
	NATIONAL	POLAND	Long Term: 15 mg/m3; Short Term: 50 mg/m3 skóra
			Source: Dz.U. 2018 poz. 1286
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NATIONAL SLOVAKIA Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

K

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 25 mg/m3 - 10 ppm; Short Term: 104 mg/m3 - 40 ppm

H, 26

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 26 mg/m3 - 10 ppm; Short Term: 52 mg/m3 - 20 ppm

D R/H, SSC, VRS Yeux / OAW Auge, La substance peut être présente sous forme de

vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol

vorliegen

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Sk

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

KINGDOM OF Sk

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

D, M

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CYPRUS Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

δέρμα

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 26 mg/m3 - 10 ppm

DFG, EU, H, Y, 11, 2(I) Source: TRGS 900

NATIONAL IRELAND Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

Sk, IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

Cute

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

Āda

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

Pe

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

skin

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

Cutânea

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

P, Dir. 2000/39

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

K, Y, EU1

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm

vía dérmica, VLI Source: LEP 2022

2-amino-2-methylpropanol NATIONAL DENMARK Long Term: 3 ppm

CAS: 124-68-5 Source: At-vejledning C.0.1-1

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SUVA SWITZERLAN Long Term: 8.7 mg/m3 - 2.4 ppm; Short Term: 17.4 mg/m3 - 4.8 ppm

R/H, SSC, Foie / Leber, La substance peut être présente sous forme de vapeur et

d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen

Source: suva.ch/valeurs-limites

NATIONAL GERMANY Long Term: 3.7 mg/m3 - 1 ppm

> DFG, H, Y, 11, 2(II) Source: TRGS 900

NATIONAL SLOVENIA Long Term: 3.7 mg/m3 - 1 ppm; Short Term: 7.4 mg/m3 - 2 ppm

K.Y

Source: UL št. 72, 11. 5. 2021

methyl-2H-isothiazol-3-one

and 2-methyl-2H-isothiazol-3-one (3:1)

Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3 reaction mass of 5-chloro-2- NATIONAL GERMANY DFG; Long term and short term: inhalable fraction

Source: TRGS900

NATIONAL AUSTRIA

Long Term: 0.05 mg/m3

MAK, Sh

Source: GKV, BGBI. II Nr. 156/2021

SUVA SWITZERLAN Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

TWA mg/m3: (i), S, SSC, VRS Peau Yeux / OAW Haut Auge

Source: suva.ch/valeurs-limites

2-Aminoethanol: ethanolamine CAS: 141-43-5

CAS: 55965-84-9

ACGIH Long Term: 3 ppm (8h); Short Term: 6 ppm

Eye and skin irr

FU Long Term: 2.5 mg/m3 - 1 ppm (8h); Short Term: 7.6 mg/m3 - 3 ppm

NATIONAL AUSTRIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

15(Miw), 4x, MAK, Sh

Source: GKV, BGBI. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Кожа

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 2.5 mg/m3; Short Term: Ceiling - 7.5 mg/m3

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 2.5 mg/m3 - 1 ppm

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Risque de pénétration percutanée

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL HUNGARY Long Term: 2.5 mg/m3; Short Term: 7.6 mg/m3

b, EU2, T

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LITHUANIA Long Term: 8 mg/m3 - 3 ppm; Short Term: 15 mg/m3 - 6 ppm

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 2.5 mg/m3; Short Term: 7.6 mg/m3

S

Source: Arbeidsomstandighedenregeling - Liist A

NATIONAL NORWAY Long Term: 2.5 mg/m3 - 1 ppm

ΗE

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 2.5 mg/m3; Short Term: 7.5 mg/m3

skóra

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Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

K

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.5 mg/m3 - 3 ppm

Н

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 5 mg/m3 - 2 ppm; Short Term: 10 mg/m3 - 4 ppm

S, Peau Fatique Yeux / Haut Fatique Auge, NIOSH, La substance peut être présente sous

forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf

und Aerosol vorliegen

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

KINGDOM OF Sk

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

D

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

koža

Source: 2006/15/EZ

NATIONAL CYPRUS Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

δέρμα

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 0.5 mg/m3 - 0.2 ppm

DFG, EU, Y, Sh, H, 11, 1(I)

Source: TRGS 900

NATIONAL GREECE Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Δ

Source: ΦΕΚ 202/A` 23.8.2007

NATIONAL IRELAND Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Sk, ĪOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Cute

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 0.5 mg/m3 - 0.2 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Āda

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Peau

G

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

skin

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

Cutânea

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

P, Dir. 2006/15

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm

K, Y, EU2

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.5 mg/m3 - 3 ppm

vía dérmica, VLI Source: LEP 2022

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Predicted No Effect Concentration (PNEC) values

ethanediol; ethylene

glycol

ČÁS: 107-21-1

Exposure Route: Fresh Water; PNEC Limit: 10 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 10 mg/l

Exposure Route: Marine water; PNEC Limit: 1 mg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 10 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 199.5 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 37 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 3.7 mg/kg

Exposure Route: Soil; PNEC Limit: 1.53 mg/kg

1,2-benzisothiazol-3(2H)- Exposure Route: Fresh Water; PNEC Limit: 4.03 µg/l

one; 1,2-benzisothiazolin-

3-one

CAS: 2634-33-5

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.1 µg/l

Exposure Route: Marine water; PNEC Limit: 403 ng/L

Exposure Route: Intermittent releases (marine water); PNEC Limit: 110 ng/L Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.03 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 49.9 µg/kg Exposure Route: Marine water sediments; PNEC Limit: 4.99 µg/kg

Exposure Route: Soil; PNEC Limit: 3 mg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1)

CAS: 55965-84-9

Exposure Route: Marine water; PNEC Limit: 3.39 µg/l

Exposure Route: Fresh Water; PNEC Limit: 3.39 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 µg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 230 µg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 µg/l

Exposure Route: Freshwater sediments; PNEC Limit: 27 µg/l Exposure Route: Marine water sediments; PNEC Limit: 27 µg/l

Exposure Route: Soil; PNEC Limit: 10 µg/l

Derived No Effect Level (DNEL) values

ethanediol; ethylene

glycol CAS: 107-21-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 35 mg/m³; Consumer: 7 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 106 mg/kg; Consumer: 53 mg/kg

1,2-benzisothiazol-3(2H)- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects one; 1,2-benzisothiazolin- Worker Professional: 6.81 mg/m³; Consumer: 1.2 mg/m³

3-one

CAS: 2634-33-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 966 μg/kg; Consumer: 345 μg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3-

one (3:1)CAS: 55965-84-9 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 20 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 40 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 90 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

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Consumer: 110 µg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; EN 374:

Nitrile rubber - NBR: thickness ≥0,35mm; breakthrough time ≥480min.

Respiratory protection:

N.A.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Whitish Odour: Light

Odour threshold: N.A.

pH: =8.60

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: > 93°C

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 1.02 g/cm3

Solubility in water: Miscible Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 2.02 %; 20.65 g/l

Particle characteristics:

Particle size: N.A. **9.2. Other information**

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

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Toxicological Information of the Preparation

a) acute toxicity
 Not classified
 Based on available data, the classification criteria are not met
 b) skin corrosion/irritation
 Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

ethanediol; ethylene a) acute toxicity glycol

LD50 Oral Rat = 7712 mg/kg

LC50 Inhalation of aerosol Rat > 2.5 mg/l 6h LD50 Skin Mouse > 3500 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye Eye Irritant Rabbit No 24h damage/irritation

d) respiratory or skin sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Rat Negative Oral route

Carcinogenicity Negative

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat > 1000

mg/kg

1,2-benzisothiazol-3(2H)- a) acute toxicity

one; 1,2-benzisothiazolin-

3-one

ATE - Oral: 450 mg/kg bw

ATE - Inhalation (Dust/mist): 0.21 mg/l

LD50 Oral Rat = 670 mg/kgLD50 Skin Rat > 2000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye Eye Corrosive Positive damage/irritation

irreversible damage

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Positive

f) carcinogenicity Genotoxicity Rat Negative Oral route

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 112

mg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1) a) acute toxicity LD50 Oral Rat = 69 mg/kg

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LD50 Skin Rabbit = 141 mg/kg LC50 Inhalation Rat = 0.33 mg/l 4h

b) skin corrosion/irritation Skin Irritant Rabbit Positive

c) serious eye damage/irritation Eye Corrosive Rabbit Positive

d) respiratory or skin sensitisation

Skin Sensitization Positive

f) carcinogenicity

Genotoxicity Negative

Carcinogenicity Skin Negative

g) reproductive toxicity

No Observed Adverse Effect Level Oral Rat = 22.7

mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data	

ethanediol; ethylene glycol

CAS: 107-21-1 - a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 72860 mg/L 96h

473-3

b) Aquatic chronic toxicity: NOEC Fish = 15380 mg/L - 7 days

b) Aquatic chronic toxicity: NOEC Ceriodaphnia dubia = 8590 mg/L - 7days

a) Aquatic acute toxicity: NOEC Algae Pseudokirchnerella subcapitata = 100

mg/L 72h OECD guideline 201

benzisothiazolin-3-one - EINECS: 220-

methyl-2H-isothiazol-3-one (3:1) 167-00-5

120-9 - INDEX: 613-088-00-6

1,2-benzisothiazol-3(2H)-one; 1,2- CAS: 2634-33-5 a) Aquatic acute toxicity: LC50 Fish Oncorynchus mykiss = 2.15 mg/L 96h

OECD Guideline 203

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 2.9 mg/L 48h OECD Guideline 202

a) Aquatic acute toxicity: EC50 Algae green alga Selenastrum capricornutum freshwater algae = 110 µg/L OECD Guideline 201

d) Terrestrial toxicity: EC50 Worm Eisenia fetida > 410.6 mg/kg OECD Guideline 207 - Duration 14d

d) Terrestrial toxicity: EC10 soil microorganisms = 263.7 mg/kg - long term

a) Aquatic acute toxicity: NOEC Sludge activated sludge 10.3 mg/L 3h OECD Guideline 209

e) Plant toxicity: LC50 Triticum aestivum = 200 mg/kg OECD Guideline 208

CAS: 55965-84- a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 0.19 mg/L 96hreaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2- 9 - INDEX: 613- EPA OPP 72-1 (Fish Acute Toxicity Test)

b) Aquatic chronic toxicity: NOEC Fish Danio rerio = 0.02 mg/L ,,OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 0.16 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 0.1 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) -21days

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- a) Aquatic acute toxicity: EC50 Algae Skeletonema costatum = 0 mg/L 96h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
- a) Aquatic acute toxicity: EC50 Sludge activated sludge = 4.5 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
- d) Terrestrial toxicity: LC50 Worm Eisenia fetida = 613 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests) 14days
- e) Plant toxicity: NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) 21days

12.2. Persistence and degradability

	Component	Persitence/Degradability:	Test	Value	Notes:
	ethanediol; ethylene glycol	Readily biodegradable	Dissolved organic carbon	90.000	10days
1,2-benzisothiazol-3(2H)-one; 1,2-Non-readily biodegradable benzisothiazolin-3-one		- Non-readily biodegradable	CO2 production		OECD Guideline 301C
	Denzisotniazoiin-3-one				

reaction mass of 5-chloro-2- Non-readily biodegradable methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
1,2-benzisothiazol-3(2H)-one; 1,2 benzisothiazolin-3-one	- Bioaccumulative	BCF - Bioconcentrantion factor	6.620	
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative -	BCF - Bioconcentrantion factor	54.000	≤ 54

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >=0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Shipping Name: N/A IMDG-Shipping Name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A IATA-Class: N/A IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

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14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP)

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

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

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

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

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

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

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

Regulation (EU) n. 2020/878

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

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 28, 75

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

None

Explosives precursors - Regulation 2019/1148

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

No substances listed

German Water Hazard Class.

3: Severe hazard to waters

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 1.59 %

Volatile Organic compounds - VOCs = 15.91 g/L

KERAKOVER ACRILEX PRIMER (not ready to use)

Volatile Organic compounds - VOCs = 2.02 %

Volatile Organic compounds - VOCs = 20.65 g/L

REGULATION (EU) No 528/2012

The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments.

Substances included in Regulation (EU) n. 528/2012 (concerning the making available on the market and use of biocidal products):

Nomenclature IUPAC: 1,2-benzisothiazol-3(2H)-one

Nomenclature BPR: BIT CAS number: 2634-33-5

Product-type 6: Preservatives for products during storage

Assessment status: Initial application for approval in progress. Nomenclature IUPAC: Mixture of 5-chloro-2-methyl-2H- isothiazol-

3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Nomenclature BPR: C(M)IT/MIT (3:1)

CAS number: 55965-84-9

Product-type 6: Preservatives for products during storage

Assessment status: Approved

Commission Implementing Regulation (EU) 2016/131

15.2. Chemical safety assessment

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

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

ethanediol; ethylene glycol

SECTION 16: Other information

Code	Description	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Code	Hazard class and hazard category Description	

Code	Hazard class and hazard category	Description
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

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3.4.2/1A Skin Sens. 1A Skin Sensitisation, Category 1A

3.9/2 STOT RE 2 Specific target organ toxicity — repeated exposure, Category 2

4.1/A1 Aquatic Acute 1 Acute aquatic hazard, category 1

4.1/C1 Aquatic Chronic 1 Chronic (long term) aquatic hazard, category 1

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

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

Skin Sens. 1A, H317

Calculation method

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

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

 ${\tt INCI: International\ Nomenclature\ of\ Cosmetic\ Ingredients.}$

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat KSt: Explosion coefficient.

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

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

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N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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Exposure Scenario, 09/08/2021

Substance identity	
	Ethane-1,2-diol
CAS No.	107-21-1
INDEX No.	603-027-00-1
EINECS No.	203-473-3
Registration number	01-2119456816-28

Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC9b)

1. ES 1 Widespread use by professional workers; Various products (PC9a, PC9b)

1.1	TIT	. – .	·	ΓΙΟΝ
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Exposure Scenario name	Use in coatings - Use in rigid foams, coatings, adhesives and sealants
Date - Version	09/08/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (PC9b)

Environment Contributing Scenario

CS1	ERC8d
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Handling and dilution of concentrates	PROC19

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8d)

Environmental release	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)			
categories	(ERC8d)			

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 1%.

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site = 5479 kg

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Municipal sewage treatment plant is assumed.	Air - minimum efficiency of: = 95 % Water - minimum efficiency of: = 87 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Contain and dispose of waste according to local regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100 Local freshwater dilution factor: 10

1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Process Categories Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

(PROC8a)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration < 8 h

Frequency:

Use frequency < 240 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Ensure operatives are trained to minimise exposures.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Inhalation - minimum efficiency of: 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration < 8 h

Frequency:

Use frequency < 240 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Ensure operatives are trained to minimise exposures.

Supervision in place to check that the risk management measures in place are being used correctly and

Inhalation - minimum efficiency

of: 80 %

operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Dermal - minimum efficiency of: 90 %

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.2. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Amounts used:

Application rate 0.05 L/min

Duration:

Exposure duration < 150 min

Frequency:

Use frequency < 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Ensure operatives are trained to minimise exposures.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training. Wear suitable coveralls to prevent exposure to the skin.

Dermal - minimum efficiency of: 80 % Inhalation - minimum efficiency of: 40 %

Other conditions affecting worker exposure

Indoor use

Professional use

Room size: Covers use in room size of < 1000 m³

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands and forearms.

1.2. CS5: Worker Contributing Scenario: Handling and dilution of concentrates (PROC19)

Process Categories

Manual activities involving hand contact (PROC19)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration < 15 min

Frequency:

Use frequency < 240 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Ensure operatives are trained to minimise exposures.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Inhalation - minimum efficiency of: 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.	Dermal - minimum efficiency of: 90 %
Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.	Definal - minimum emclency of. 90 %

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 12.94 mg/m ³	ECETOC TRA worker v2.0	= 0.37
dermal, systemic, long-term	= 13.71 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.01

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 12.94 mg/m ³	ECETOC TRA worker v2.0	= 0.37
dermal, systemic, long-term	= 2.74 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.03

1.3. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 14.05 mg/m ³	ECETOC TRA worker v2.0	= 0.4
dermal, systemic, long-term	= 53.75 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.51

1.3. CS5: Worker Contributing Scenario: Handling and dilution of concentrates (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 6.47 mg/m ³	ECETOC TRA worker v2.0	= 0.18
dermal, systemic, long-term	= 14.14 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.13

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.