Safety Data Sheet

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

KERAREP (A)

Date of first edition: 18. 04. 2021

Safety Data Sheet dated 30/06/2026 version 8

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

1.1. Product identifier

Mixture identification:

Trade name: KERAREP (A)

Trade code: 12112020

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

Recommended use: Lepila, tesnilne mase

Uses advised against: Uporabe, ki niso priporočene

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Flam. Liq. 3	Flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
Repr. 2	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
STOT RE 1	Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

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



Danger

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Precautionary statements

P102	Keep out of reach of children.
P210	EU4$P210

P260	Do not breathe vapours.
P280	Wear protective gloves/clothing and eye/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire, use a CO2 fire extinguisher to extinguish.

Special Provisions:

EUH208	Contains Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-. May produce an allergic reaction.
EUH208	Contains Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

Contains

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

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2.3. Other hazards

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

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KERAREP (A)

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	stiren	CAS:100-42-5 EC:202-851-5 Index:601-026-00-0	Flam. Liq. 3, H226; Repr. 2, H361; Acute Tox. 4, H332; STOT RE 1, H372; Asp. Tox. 1, H304; Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3, H335; Aquatic Chronic 3, H412	
≥0.3-<0.5 %	Fatty acids, C14-18 and C16-18-unsatd., maleated	CAS:85711-46-2 EC:288-306-2	Skin Irrit. 2, H315; Skin Sens. 1, H317	01-2119976378-19
≥0.20-<0.25 %	ksilen	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Eye Irrit. 2, H319, M-Chronic:1	01-2119488216-32
≥0.20-<0.25 %	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	EC:911-490-9	Aquatic Chronic 3, H412; Skin Sens. 1, H317; Eye Dam. 1, H318; Skin Irrit. 2, H315; Acute Tox. 4, H302	01-2119979579-10
≥0.05-<0.1 %	anhidrid maleinske kisline	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Sens. 1A, H317, EUH071 Specific Concentration Limits: C ≥ 0.001%: Skin Sens. 1A H317	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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:

CO_2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Water.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

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

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

6.3. Methods and material for containment and cleaning up

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Use localized ventilation system.

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

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

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

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

Incompatible materials:

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

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CAS: 100-42-5	ACGIH	Long Term: 10 ppm (8h); Short Term: 20 ppm Notes: OTO, A3, BEI - CNS and hearing impair, URT irr, peripheral neuropathy, visual disorders
	NATION Avstrija AL	Long Term: 85 mg/m3 - 20 ppm; Short Term: 340 mg/m3 - 80 ppm Notes: 15(Miw), 4x, MAK, d Source: BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 108 mg/m3 - 25 ppm; Short Term: 216 mg/m3 - 50 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Bolgarija AL	Long Term: 85 mg/m3; Short Term: 215 mg/m3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION Češka AL	Long Term: 100 mg/m3; Short Term: Ceiling - 400 mg/m3 Notes: B, I, P Source: Nařízení vlády č. 361-2007 Sb
	NATION Nemčija AL	Long Term: 86 mg/m3 - 20 ppm Notes: DFG, Y, 2(II) Source: TRGS 900
	NATION Danska AL	Short Term: Ceiling - 105 mg/m3 - 25 ppm Notes: LHK Source: BEK nr 2203 af 29/11/2021
	NATION Španija AL	Long Term: 86 mg/m3 - 20 ppm; Short Term: 172 mg/m3 - 40 ppm Notes: VLB®, ae Source: LEP 2022
	NATION Estonija AL	Long Term: 90 mg/m3 - 20 ppm; Short Term: 200 mg/m3 - 50 ppm Notes: A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION Finska AL	Long Term: 86 mg/m3 - 20 ppm; Short Term: 430 mg/m3 - 100 ppm Notes: melu Source: HTP-ARVOT 2020
	NATION Francija AL	Long Term: 100 mg/m3 - 23.3 ppm; Short Term: 200 mg/m3 - 46.6 ppm Notes: Toxique pour la reproduction de catégorie 2, Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
	NATION Grčija AL	Long Term: 425 mg/m3 - 100 ppm; Short Term: 1050 mg/m3 - 250 ppm Source: ΦΕΚ 94/Α` 13.5.1999
	NATION Hrvaška AL	Long Term: 430 mg/m3 - 100 ppm; Short Term: 1080 mg/m3 - 250 ppm Notes: koža Source: NN 1/2021
	NATION Madžarska AL	Long Term: 86 mg/m3; Short Term: 172 mg/m3 Notes: i, BEM, R+T Source: 5/2020. (II. 6.) ITM rendelet

	NATIONAL	Irska	Long Term: 85 mg/m3 - 20 ppm; Short Term: 170 mg/m3 - 40 ppm Source: 2021 Code of Practice
	NATIONAL	Litva	Long Term: 90 mg/m3 - 20 ppm; Short Term: 200 mg/m3 - 50 ppm Notes: O, Projektuojant naujus objektus ar keičiant senus, reikia stengtis užtikrinti, kad stireno poveikis per darbo dieną būtų priimtinas laikantis IPRD 10 ppm koncentracijos. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	Latvija	Long Term: 10 mg/m3; Short Term: 30 mg/m3 Notes: Ietekme uz dzirdi Source: KN325P1
	NATIONAL	Norveška	Long Term: 105 mg/m3 - 25 ppm Notes: M Source: FOR-2021-06-28-2248
	NATIONAL	Poljska	Long Term: 50 mg/m3; Short Term: 100 mg/m3 Source: Dz.U. 2018 poz. 1286
	NATIONAL	Slovaška	Long Term: 90 mg/m3 - 20 ppm; Short Term: 200 mg/m3 - 50 ppm Notes: 1) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	Slovenija	Long Term: 86 mg/m3 - 20 ppm; Short Term: 172 mg/m3 - 40 ppm Notes: Y, BAT, RD2 Source: UL št. 72, 11. 5. 2021
	NATIONAL	Švedska	Long Term: 43 mg/m3 - 10 ppm; Short Term: 86 mg/m3 - 20 ppm Notes: B, H, V Source: AFS 2021:3
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 430 mg/m3 - 100 ppm; Short Term: 1080 mg/m3 - 250 ppm Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	SUVA	Švicar	Long Term: 85 mg/m3 - 20 ppm; Short Term: 170 mg/m3 - 40 ppm Notes: SSC, OB, B, VRS Yeux SN / OAW Auge NS, HSE NIOSH DFG OSHA Source: suva.ch/valeurs-limites

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CAS: 1330-20-7	ACGIH		Long Term: 20 ppm (8h) Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EU		Long Term: 221 mg/m3 - 50 ppm (8h); Short Term: 442 mg/m3 - 100 ppm Notes: Skin
	NATIONAL	Avstrija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: 15(Miw), 4x, MAK Source: BGBl. II Nr. 156/2021
	NATIONAL	Belgija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	Bolgarija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	Ciper	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATIONAL	Češka	Long Term: 200 mg/m3; Short Term: Ceiling - 400 mg/m3 Notes: B, D, I Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	Nemčija	Long Term: 220 mg/m3 - 50 ppm Notes: DFG, EU, H, 2(II) Source: TRGS 900
	NATIONAL	Danska	Long Term: 109 mg/m3 - 25 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021

NATIONAL	Španija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: vía dérmica, VLB®, VLI Source: LEP 2022
NATIONAL	Estonija	Long Term: 200 mg/m3 - 50 ppm; Short Term: 450 mg/m3 - 100 ppm Notes: A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	Finska	Long Term: 220 mg/m3 - 50 ppm; Short Term: 440 mg/m3 - 100 ppm Notes: iho Source: HTP-ARVOT 2020
NATIONAL	Francija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
NATIONAL	Grčija	Long Term: 435 mg/m3 - 100 ppm; Short Term: 650 mg/m3 - 150 ppm Notes: Δ Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	Hrvaška	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: koža Source: 2000/39/EZ
NATIONAL	Madžarska	Long Term: 221 mg/m3; Short Term: 442 mg/m3 Notes: b, BEM, EU1, R Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	Irska	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
NATIONAL	Italija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	Litva	Long Term: 200 mg/m3 - 50 ppm; Short Term: 450 mg/m3 - 100 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATIONAL	Luksemburg	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	Latvija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Āda Source: KN325P1
NATIONAL	Malta	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: skin Source: S.L.424.24
NATIONAL	Nizozemska	Long Term: 210 mg/m3; Short Term: 442 mg/m3 Notes: H Source: Arbeidsomstandighedenregeling - Lijst A
NATIONAL	Norveška	Long Term: 108 mg/m3 - 25 ppm Notes: H E Source: FOR-2021-06-28-2248
NATIONAL	Poljska	Long Term: 100 mg/m3; Short Term: 200 mg/m3 Notes: skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	Portugalska	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: Cutânea Source: Decreto-Lei n.º 1/2021
NATIONAL	Romunija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	Slovaška	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: K, 7) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	Slovenija	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: K, BAT, EU1 Source: UL št. 72, 11. 5. 2021

	NATIONAL	Švedska	Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Notes: H Source: AFS 2021:3
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm Notes: Sk, BMGV Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	SUVA	Švicar	Long Term: 220 mg/m3 - 50 ppm; Short Term: 440 mg/m3 - 100 ppm Notes: R/H, B, SNC / ZNS, NIOSH INRS Source: suva.ch/valeurs-limites

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CAS: 108-31-6	ACGIH		Long Term: 0.01 mg/m3 (8h) Notes: IFV, DSEN, RSEN, A4 - Resp sens
	NATIONAL	Avstrija	Long Term: 0.4 mg/m3 - 0.1 ppm; Short Term: Ceiling - 0.8 mg/m3 - 0.2 ppm Notes: 5(Mow), 8x, MAK, Sah Source: BGBl. II Nr. 156/2021
	NATIONAL	Belgija	Long Term: 0.01 mg/m3 - 0.003 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	Bolgarija	Long Term: 1 mg/m3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	Češka	Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3 Notes: I, S Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	Nemčija	Long Term: 0.081 mg/m3 - 0.02 ppm Notes: DFG, Sah, Y, 11, 1;=2, 5=(I) Source: TRGS 900
	NATIONAL	Danska	Long Term: 0.4 mg/m3 - 0.1 ppm Source: BEK nr 2203 af 29/11/2021
	NATIONAL	Španija	Long Term: 0.4 mg/m3 - 0.1 ppm Notes: FIV, Sen Source: LEP 2022
	NATIONAL	Estonija	Long Term: 1.2 mg/m3 - 0.3 ppm; Short Term: 2.5 mg/m3 - 0.6 ppm Notes: S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	Finska	Long Term: 0.41 mg/m3 - 0.1 ppm; Short Term: Ceiling - 0.81 mg/m3 - 0.2 ppm Notes: kattoarvo Source: HTP-ARVOT 2020
	NATIONAL	Francija	Short Term: 1 mg/m3 Notes: Risque d'allergie Source: INRS outil65
	NATIONAL	Grčija	Long Term: 1 mg/m3 - 0.25 ppm Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL	Hrvaška	Long Term: 0.41 mg/m3 - 0.1 ppm; Short Term: 0.8 mg/m3 - 0.2 ppm Notes: alergen (koža i udisanje) Source: NN 1/2021
	NATIONAL	Madžarska	Long Term: 0.08 mg/m3; Short Term: 0.08 mg/m3 Notes: m, sz, R+T Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	Irska	Long Term: 0.01 ppm Notes: Sens., IFV Source: 2021 Code of Practice
	NATIONAL	Litva	Long Term: 1.2 mg/m3 - 0.3 ppm; Short Term: 2.5 mg/m3 - 0.6 ppm Notes: J Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	Latvija	Long Term: 1 mg/m3 Source: KN325P1

NATIONAL	Norveška	Long Term: 0.8 mg/m3 - 0.2 ppm Notes: A Source: FOR-2021-06-28-2248
NATIONAL	Poljska	Long Term: 0.5 mg/m3; Short Term: 1 mg/m3 Notes: skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	Romunija	Long Term: 1 mg/m3 - 0.25 ppm; Short Term: 3 mg/m3 - 0.75 ppm Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	Slovaška	Long Term: 0.41 mg/m3 - 0.1 ppm Notes: S Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	Slovenija	Long Term: 0.41 mg/m3 - 0.1 ppm; Short Term: 0.41 mg/m3 - 0.1 ppm Notes: Y Source: UL št. 72, 11. 5. 2021
NATIONAL	Švedska	Long Term: 0.2 mg/m3 - 0.05 ppm; Short Term: 0.4 mg/m3 - 0.1 ppm Notes: M, S Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m3; Short Term: 3 mg/m3 Notes: Sen Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 0.4 mg/m3 - 0.1 ppm; Short Term: 0.4 mg/m3 - 0.1 ppm Notes: S, SSC, VR / AW, NIOSH OSHA, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen Source: suva.ch/valeurs-limites

Biological limit values

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CAS: 100-42-5 Biological Indicator: Mandelic acid in urine and fenilgliossilico; Sampling Period: End of turn
Value: 600 mg/g; Medium: Urine

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

Predicted No Effect Concentration (PNEC) values

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CAS: 100-42-5 Exposure Route: Fresh Water; PNEC Limit: 34 mg/m3
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 40 mg/m3
Exposure Route: Marine water; PNEC Limit: 27 mg/m3
Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 5 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 516 µg/kg
Exposure Route: Usedline morske vode; PNEC Limit: 362.5 µg/kg
Exposure Route: Zemlja; PNEC Limit: 173 µg/kg

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

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CAS: 108-31-6 Exposure Route: Fresh Water; PNEC Limit: 87.5 mg/m3
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 589.5 mg/m3
Exposure Route: Marine water; PNEC Limit: 8.75 mg/m3
Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 24.53 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 197 µg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 19.7 µg/kg

Exposure Route: Zemlja; PNEC Limit: 25.75 µg/kg

Exposure Route: Secondary poisoning; PNEC Limit: 6.67 mg/kg

Derived No Effect Level (DNEL) values

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CAS: 100-42-5

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 85 mg/kg/day; Consumer: 1 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 100 mg/kg/day; Consumer: 10 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 100 mg/kg/day; Consumer: 1 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 100 mg/kg/day; Consumer: 10 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 406 mg/kg; Consumer: 343 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 7.7 µg/kg

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CAS: 1330-20-7

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

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

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

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

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

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

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CAS: 108-31-6

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

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

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

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

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

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

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

8.2. Exposure controls

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Zaščita rok:

Materiali primerni za začitne rokavice; EN 374:

Nitril kavčuk NBR: debeline ≥ 0,35 mm; čas preboja ≥ 480 min.

Respiratory protection:

Plinski filter tipa A.

Thermal Hazards:

Ni predvideno, če se uporablja, kot je predvideno

Environmental exposure controls:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	grey
Odour:	like: Styrene
pH:	Not Relevant Notes: Ni uporabljivo, nevodna zmes
Kinematic viscosity:	> 20,5 mm2/s (40 °C)
Melting point/freezing point:	-31 °C (-24 °F)
Boiling point or initial boiling point and boiling range:	145 °C (293 °F)
Flash point:	32 °C (90 °F)
Lower and upper explosion limit:	N.A.
Relative vapour density:	3.6
Vapour pressure:	6.67 (kPa 50°C). hPa
Density and/or relative density:	1.67 g/cm3
Solubility in water:	Netopno
Solubility in oil:	Not Relevant Notes: Ni določeno, ker ni potrebno za CLP-razvrstitev
Partition coefficient n-octanol/water (log value):	Not Relevant Notes: Ni uporabljivo za zmesi
Auto-ignition temperature:	490.00 °C
Decomposition temperature:	Not Relevant Notes: Ni uporabljivo, ker zmes ni samoreaktivna
Flammability:	Not Relevant Notes: Se ne uporablja, ker zmes ni vnetljiva
Volatile Organic compounds - VOCs =	20.15%; 336.49g/L
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide. Hydrocarbons

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
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	The product is classified: Repr. 2(H361)
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	The product is classified: STOT RE 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

stiren

CAS: 100-42-5	a) acute toxicity	LD50 Oral Rat = 5000 mg/kg
		LC50 Inhalation Vapour Rat = 11.8 mg/l 4h
		LD50 Skin Rat > 2000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative
	f) carcinogenicity	Genotoxicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 0.64

ksilen

CAS: 1330-20-7	a) acute toxicity	LD50 Oral Rat = 3523 ml/kg
		LC50 Inhalation Vapour Rat = 29000 mg/m3 4h
		LD50 Skin Rabbit = 12126 mg/kg 24h
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 1h
	f) carcinogenicity	Genotoxicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 2171 mg/kg

anhidrid maleinske kisline

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

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

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

stiren

CAS: 100-42-5	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 4.02 mg/L 96h
	a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 4.7 mg/L 48h
	b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 1.01 mg/L
	a) Aquatic acute toxicity: EC50 Algae = 4.9 mg/L 72h
	a) Aquatic acute toxicity: EC50 Sludge activated sludge = 500 mg/L

ksilen

CAS: 1330-20-7	a) Aquatic acute toxicity: LC50 Fish freshwater fish = 2.6 mg/L 96h
	b) Aquatic chronic toxicity: NOEC Fish freshwater fish = 1.3 mg/L
	a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 1 mg/L 24h
	b) Aquatic chronic toxicity: NOEC Daphnia Ceriodaphnia dubia = 0.96 mg/L
	a) Aquatic acute toxicity: EC50 Algae freshwater algae = 1.3 mg/L 48h
	a) Aquatic acute toxicity: EC50 microorganisms = 96 mg/L
	d) Terrestrial toxicity: NOEC Worm earthworms = 16 mg/kg
	e) Plant toxicity: LC50 terrestrial plants = 1 mg/kg

anhidrid maleinske kisline

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

12.2. Persistence and degradability

stiren

CAS: 100-42-5	Readily biodegradable	Test: Biochemical oxigen demand; Value: 80 Notes: 28days

ksilen

CAS: 1330-20-7	Readily biodegradable	

anhidrid maleinske kisline

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

12.3. Bioaccumulative potential

ksilen

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

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

Ni sestavine PBT/vPvB.

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

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

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

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

3269

14.2. UN proper shipping name

ADR-Shipping Name: POLYESTER RESIN KIT

IATA-Shipping Name: POLYESTER RESIN KIT liquid base material

IMDG-Shipping Name: POLYESTER RESIN KIT, liquid base material

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-D

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 236 340

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

ADR Limited Quantities: 5 L

ADR Excepted Quantities: See SP 340

Air (IATA):

IATA-Passenger Aircraft: 370

IATA-Cargo Aircraft: 370

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A66 A163

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 236 340

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

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

Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EU) n. 2020/878
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2024/2564 (ATP 22 CLP)
Regulation (EU) n. 2024/2865
Regulation (EU) n. 2025/1222 (ATP 23 CLP)
Regulation (EC) nr 648/2004 (Detergents).

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

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

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

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

Explosives precursors – Regulation 2019/1148

No substances listed

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

No substances listed

German Water Hazard Class.

NWG: Not hazardous for water

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

H361	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
H372	Causes damage to organs through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
Repr. 2, H361	Calculation method
STOT RE 1, H372	Calculation method

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

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Safety Data Sheet

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

KERAREP (B)

Date of first edition: 19. 05. 2021

Safety Data Sheet dated 30/06/2026 version 8

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

1.1. Product identifier

Mixture identification:

Trade name: KERAREP (B)

Trade code: 27062018

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

Recommended use: trdilec

Uses advised against: Uporabe, ki niso priporočene

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Org. Perox. F	Heating may cause a fire.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Aquatic Acute 1	Very toxic to aquatic life.
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

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

H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	EU4$P210
P280	Wear protective gloves and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

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

Contains

Dibenzoyl peroxide

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

Nobena

2.3. Other hazards

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

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KERAREP (B)

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥50-<70 %	Dibenzoyl peroxide	CAS:94-36-0 EC:202-327-6 Index:617-008-00-0	Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:10	01-2119511472-50
≥5-<10 %	etandiol; etilen glikol	CAS:107-21-1 EC:203-473-3 Index:603-027-00-1	Acute Tox. 4, H302; STOT RE 2, H373	01-2119456816-28

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

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

Eye irritation

Eye damages

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).

CO2 or Dry chemical fire extinguisher.

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

Always keep in a well ventilated place.

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

Incompatible materials:

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Dibenzoyl peroxide

CAS: 94-36-0	ACGIH	Long Term: 5 mg/m3 (8h) Notes: A4 - URT and skin irr
	NATION Avstrija AL	Long Term: 5 mg/m3; Short Term: Ceiling - 10 mg/m3 Notes: 5(Mow), 8x, MAK, Sh, E Source: GKV, BGBl. II Nr. 156/2021
	NATION Belgija AL	Long Term: 5 mg/m3 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION Češka AL	Long Term: 5 mg/m3; Short Term: Ceiling - 10 mg/m3 Notes: I, S Source: Nařízení vlády č. 361-2007 Sb

	NATIONAL	Nemčija	Long Term: 5 mg/m3 Notes: DFG, E, 1(I) Source: TRGS 900
	NATIONAL	Danska	Long Term: 5 mg/m3 Source: BEK nr 2203 af 29/11/2021
	NATIONAL	Španija	Long Term: 5 mg/m3 Notes: Sen Source: LEP 2022
	NATIONAL	Estonija	Long Term: 5 mg/m3 Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	Finska	Long Term: 5 mg/m3; Short Term: 10 mg/m3 Source: HTP-ARVOT 2020
	NATIONAL	Francija	Long Term: 5 mg/m3 Source: INRS outil65
	NATIONAL	Grčija	Long Term: 5 mg/m3 Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL	Hrvaška	Long Term: 5 mg/m3 Notes: alergen koža Source: NN 1/2021
	NATIONAL	Madžarska	Long Term: 5 mg/m3; Short Term: 5 mg/m3 Notes: b, i, sz, N Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	Irska	Long Term: 5 mg/m3 Notes: Sens. Source: 2021 Code of Practice
	NATIONAL	Norveška	Long Term: 5 mg/m3 Notes: A Source: FOR-2021-06-28-2248
	NATIONAL	Poljska	Long Term: 5 mg/m3; Short Term: 10 mg/m3 Source: Dz.U. 2018 poz. 1286
	NATIONAL	Slovaška	Long Term: 5 mg/m3 Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	Slovenija	Long Term: 5 mg/m3; Short Term: 5 mg/m3 Notes: (I) Source: UL št. 72, 11. 5. 2021
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 5 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	SUVA	Švicar	Long Term: 5 mg/m3; Short Term: 5 mg/m3 Notes: TWA mg/m3: (i), VRS Peau / OAW Haut, NIOSH Source: suva.ch/valeurs-limites

etandiol; etilen glikol

CAS: 107-21-1	ACGIH		Short Term: 10 mg/m3 Notes: I, H, A4 - URT irr
	EU		Long Term: 52 mg/m3 - 20 ppm (8h); Short Term: 104 mg/m3 - 40 ppm Notes: Skin
	NATIONAL	Avstrija	Long Term: 26 mg/m3 - 10 ppm; Short Term: Ceiling - 52 mg/m3 - 20 ppm Notes: 5(Mow), 8x, MAK, H Source: BGBl. II Nr. 156/2021
	NATIONAL	Belgija	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: D, M Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	Bolgarija	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATION Ciper AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
NATION Češka AL	Long Term: 50 mg/m3; Short Term: Ceiling - 100 mg/m3 Notes: D Source: Nařízení vlády č. 361-2007 Sb
NATION Nemčija AL	Long Term: 26 mg/m3 - 10 ppm Notes: DFG, EU, H, Y, 11, 2(I) Source: TRGS 900
NATION Danska AL	Long Term: 26 mg/m3 - 10 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021 Long Term: 10 mg/m3 Source: BEK nr 2203 af 29/11/2021
NATION Španija AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: vía dérmica, VLI Source: LEP 2022
NATION Estonija AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: A, 18 Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATION Finska AL	Long Term: 50 mg/m3 - 20 ppm; Short Term: 100 mg/m3 - 40 ppm Notes: iho Source: HTP-ARVOT 2020
NATION Francija AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, arrêté du 30-06-2004 modifié
NATION Grčija AL	Long Term: 125 mg/m3 - 50 ppm; Short Term: 125 mg/m3 - 50 ppm Source: ΦΕΚ 94/Α` 13.5.1999
NATION Madžarska AL	Long Term: 52 mg/m3; Short Term: 104 mg/m3 Notes: b, i, EU1, N Source: 5/2020. (II. 6.) ITM rendelet
NATION Irska AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
NATION Italija AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
NATION Litva AL	Long Term: 25 mg/m3 - 10 ppm; Short Term: 50 mg/m3 - 20 ppm Notes: O, Šis RD taikomas bendrai garų ir aerozolio koncentracijai. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATION Luksemburg AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021
NATION Latvija AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Āda Source: KN325P1
NATION Malta AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: skin Source: S.L.424.24
NATION Nizozemska AL	Long Term: 52 mg/m3; Short Term: 104 mg/m3 Notes: H Source: Arbeidsomstandighedenregeling - Lijst A Long Term: 10 mg/m3; Short Term: 104 mg/m3 Notes: H Source: Arbeidsomstandighedenregeling - Lijst A
NATION Norveška AL	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: H E 5 S Source: FOR-2021-06-28-2248

NATIONAL	Poljska	Long Term: 15 mg/m3; Short Term: 50 mg/m3 Notes: skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	Portugalska	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Cutânea Source: Decreto-Lei n.º 1/2021
NATIONAL	Romunija	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	Slovaška	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	Slovenija	Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: K, Y, EU1 Source: UL št. 72, 11. 5. 2021
NATIONAL	Švedska	Long Term: 25 mg/m3 - 10 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: H, 26 Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Notes: Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
		Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm Notes: Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	Švicar	Long Term: 26 mg/m3 - 10 ppm; Short Term: 52 mg/m3 - 20 ppm Notes: 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

Predicted No Effect Concentration (PNEC) values

etandiol; etilen glikol

CAS: 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: Mikroorganizmi v čiščenju odplak; PNEC Limit: 199.5 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 37 mg/kg
	Exposure Route: Usedline morske vode; PNEC Limit: 3.7 mg/kg
	Exposure Route: Zemlja; PNEC Limit: 1.53 mg/kg

Derived No Effect Level (DNEL) values

etandiol; etilen glikol

CAS: 107-21-1	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 35 mg/kg/day; Consumer: 7 mg/kg/day
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 106 mg/kg; Consumer: 53 mg/kg

8.2. Exposure controls

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Zaščita rok:

Materiali primerni za začitne rokavice; EN 374:

Nitril kavčuk NBR: debeline ≥ 0,35 mm; čas preboja ≥ 480 min.

Respiratory protection:

Plinski filter tipa A.

Thermal Hazards:

Ni predvideno, če se uporablja, kot je predvideno

Environmental exposure controls:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	red
Odour:	characteristic
pH:	Not Relevant Notes: Ni uporabljivo, nevodna zmes
Kinematic viscosity:	N.A.
Melting point/freezing point:	0 °C (32 °F)
Boiling point or initial boiling point and boiling range:	N.A.
Flash point:	195 °C (383 °F)
Lower and upper explosion limit:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	1.20 g/cm3
Solubility in water:	Netopno
Solubility in oil:	N.A.
Partition coefficient n-octanol/water (log value):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	50.00 °C
Flammability:	N.A.
Volatile Organic compounds - VOCs =	9.90%; 118.80g/L
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

Explosive properties:	SADT 50°C

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

Exothermic reaction with bases

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Amines; Alkalije; Kisline

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	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	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	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:

etandiol; etilen glikol

CAS: 107-21-1	a) acute toxicity	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 damage/irritation	Eye Irritant Rabbit No 24h
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative
	f) carcinogenicity	Genotoxicity Rat Negative
		Carcinogenicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat > 1000 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:

Very toxic to aquatic organisms.

Very toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Acute 1(H400), Aquatic Chronic 1(H410)

List of Eco-Toxicological properties of the components

etandiol; etilen glikol

CAS: 107-21-1	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 72860 mg/L 96h
	b) Aquatic chronic toxicity: NOEC Fish = 15380 mg/L
	b) Aquatic chronic toxicity: NOEC Ceriodaphnia dubia = 8590 mg/L
	a) Aquatic acute toxicity: NOEC Algae Pseudokirchnerella subcapitata = 100 mg/L 72h

12.2. Persistence and degradability

etandiol; etilen glikol

CAS: 107-21-1	Readily biodegradable	Test: Dissolved organic carbon; Value: 90 Notes: 10days

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

Ni sestavine PBT/vPvB.

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

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

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

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

3108

14.2. UN proper shipping name

ADR-Shipping Name: ORGANIC PEROXIDE TYPE E, SOLID
IATA-Shipping Name: ORGANIC PEROXIDE TYPE E, SOLID
IMDG-Shipping Name: ORGANIC PEROXIDE TYPE E, SOLID

14.3. Transport hazard class(es)

ADR-Class: 5.2
IATA-Class: 5.2
IMDG-Class: 5.2

14.4. Packing group

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

14.5. Environmental hazards

Most important toxic component: Dibenzoyl peroxide
Marine pollutant: Yes
Environmental Pollutant: Yes
IMDG-EMS: F-J, S-R

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 5.2
ADR - Hazard identification number: -
ADR-Special Provisions: 122 274
ADR-Transport category (Tunnel restriction code): 2 (D)
ADR Limited Quantities: 500 g
ADR Excepted Quantities: E0

Air (IATA):

IATA-Passenger Aircraft: 570
IATA-Cargo Aircraft: 570
IATA-Label: 5.2 + KAFH
IATA-Subsidiary hazards: -
IATA-Erg: 5L
IATA-Special Provisions: A20 A802

Sea (IMDG):

IMDG-Stowage and handling: Category D SW1
IMDG-Segregation: SG35 SG36 SG72
IMDG-Subsidiary hazards: -
IMDG-Special Provisions: 122 274

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)	Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)	Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)	Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)	Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)	Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)	Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)	Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)	Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)	Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)	Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)	Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)	Regulation (EU) n. 2024/2564 (ATP 22 CLP)
Regulation (EU) n. 2024/2865	Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Regulation (EC) nr 648/2004 (Detergents).
Omejitve, povezane z izdelkom ali vsebovanimi snovmi, v skladu s Prilogo XVII Uredbe (ES) 1907/2006 (REACH) in poznejše spremembe:

Restrictions related to the product: Nobena
Restrictions related to the substances contained: 75

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

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P6b	50	200
Product belongs to category: E1	100	200

Explosives precursors – Regulation 2019/1148

No substances listed

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

No substances listed

German Water Hazard Class.

Razred 3: izjemno nevarna.

German Lagerklasse according to TRGS 510:

LGK 5.2

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

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:

etandiol; etilen glikol

SECTION 16: Other information

Code	Description
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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
2.15/B	Org. Perox. B	Organic peroxide, Type B
2.15/F	Org. Perox. F	Organic peroxide, Type F
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
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 (EC) Nr. 1272/2008	Classification procedure
Org. Perox. F, H242	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

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

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Scenarij izpostavljenosti
Ethane-1,2-diol

Scenarij izpostavljenosti, 09/08/2021

Identiteta snovi	
	Ethane-1,2-diol
št.CAS	107-21-1
Št. INDEKSA	603-027-00-1
št.EINECS	203-473-3
Registracijska številka	01-2119456816-28

Kazalo

1. **ES 1** Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC9b)

1. ES 1 Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC9b)

1.1 NASLOVNI ODSTAVEK

Ime scenarija izpostavljenosti	Uporaba pri premazih - Uporaba za trde penaste mase, premaze, lepila in tesnila
Datum - revizija	09/08/2021 - 1.0
Stopnja življenjskega cikla	Široko razširjena uporaba, ki jo izvajajo poklicni delavci
Glavna uporabniška skupina	Poklicne uporabe
Sektor(-ji) uporabe	Poklicne uporabe (SU22)
Kategorije izdelkov	Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) - Polnila, kiti, mavci, modelirna glina (PC9b)

Scenarij, ki prispeva Okolje

CS1	ERC8d

Scenarij, ki prispeva Delojemalec

CS2 Prenosi materiala	PROC8a
CS3 Nanašanje z valjem in čopičem	PROC10
CS4 Nanašanje z valjem, pršenjem in polivanjem	PROC11
CS5 Redčenje koncentratov in ravnanje z njimi	PROC19

1.2 Pogoji uporabe z vplivom na izpostavitev

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

Kategorije sproščanja v okolje	Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, zunanja) (ERC8d)

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:
Tekoč

Koncentracija substance v produktu:
Obsega delež snovi v izdelku do 1 %.

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

Uporabljene količine:
Dnevna količina na lokacijo = 5479 kg

Tip izločanja: Kontinuirano izločanje

Dnevi emisij: 365 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi

Kontrolni ukrepi za preprečevanje izpustov

Uporabljena čistilna naprava.	Zrak - najmanjša učinkovitost: = 95 % Voda - najmanjša učinkovitost: = 87 %

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

Ravnanje z odpadki
Zbirajte odpadke in jih odstranite skladno s krajevnimi predpisi.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja

Krajevni faktor razredčenja morske vode:: 100
Krajevni faktor razredčenja sladke vode: 10

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

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

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:
Tekoč

Koncentracija substance v produktu:
Obsega delež snovi v izdelku do 1 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:
Trajanje izpostavljenosti < 8 h
Frekvenca:
Pogostost uporabe < 240 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije. Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum. Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.	Vdihavanje - najmanjša učinkovitost: 80 %

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

Osebna zaščitna oprema
Nosite ustrezno opremo za zaščito dihal.

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija
Gospodarska uporaba
Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.
Izpostavljeni deli telesa:
Predpostavlja se, da je morebiten stik s kožo omejen na roke.

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

Kategorije procesov	Nanašanje z valjčkom ali čopičem (PROC10)

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:
Tekoč

Koncentracija substance v produktu:
Obsega delež snovi v izdelku do 1 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:
Trajanje izpostavljenosti < 8 h
Frekvenca:
Pogostost uporabe < 240 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije. Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum. Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev	Vdihavanje - najmanjša učinkovitost: 80 %

delovanja.	

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

Osebna zaščitna oprema

Nosite ustrezno opremo za zaščito dihal. Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374).	Kožni - najmanjša učinkovitost: 90 %

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija
Gospodarska uporaba
Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.
Izpostavljeni deli telesa:
Predpostavlja se, da je morebiten stik s kožo omejen na roke.

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

Kategorije procesov	Neindustrijsko brizganje (PROC11)

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:
Tekoč

Koncentracija substance v produktu:
Obsega delež snovi v izdelku do 1 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Uporabljene količine:
Poraba 0.05 L/min

Trajanje:
Trajanje izpostavljenosti < 150 min
Frekvenca:
Pogostost uporabe < 5 dnevi na teden

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi
Zagotovite zadostno stopnjo splošnega prezračevanja (ne manj kot 3 do 5 izmenjav zraka na uro).
Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.
Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.

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

Osebna zaščitna oprema

Nosite ustrezno opremo za zaščito dihal. Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374). Nosite primeren kombinezon, da bi preprečili izpostavljenost kože.	Kožni - najmanjša učinkovitost: 80 % Vdihavanje - najmanjša učinkovitost: 40 %

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija
Gospodarska uporaba
Velikost prostora: Obsega uporabo pri velikosti prostora < 1000 m3
Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.
Izpostavljeni deli telesa:
Predpostavlja se, da je morebiten stik s kožo omejen na dlani in podlakti.

1.2. CS5: Scenarij, ki prispeva Delojemalec: Redčenje koncentratov in ravnanje z njimi (PROC19)

Kategorije procesov	Ročne dejavnosti, ki vključujejo ročni stik (PROC19)

Lastnosti izdelka (proizvoda)

Fizikalna oblika izdelka:
Tekoč

Koncentracija substance v produktu:
Obsega delež snovi v izdelku do 1 %.

Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost

Trajanje:
Trajanje izpostavljenosti < 15 min

Frekvenca:
Pogostost uporabe < 240 dnevi na leto

Tehnični in organizacijski pogoji in ukrepi

Tehnični in organizacijski ukrepi

Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije. Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum. Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.	Vdihavanje - najmanjša učinkovitost: 80 %

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

Osebna zaščitna oprema

Nosite ustrezno opremo za zaščito dihal. Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374).	Kožni - najmanjša učinkovitost: 90 %

Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Notranja aplikacija
Gospodarska uporaba
Temperatura: Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.
Izpostavljeni deli telesa:
Predpostavlja se, da je morebiten stik s kožo omejen na roke.

1.3 Ocena izpostavljenosti in sklicevanje na njen vir

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

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 12.94 mg/m³	ECETOC TRA Delojemalec v2.0	= 0.37
stik s kožo, sistemsko, dolgoročno	= 13.71 mg/kg bw/dan	ECETOC TRA Delojemalec v2.0	= 0.01

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

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 12.94 mg/m³	ECETOC TRA	= 0.37

		Delojemalec v2.0	
stik s kožo, sistemsko, dolgoročno	= 2.74 mg/kg bw/dan	ECETOC TRA Delojemalec v2.0	= 0.03

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

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 14.05 mg/m³	ECETOC TRA Delojemalec v2.0	= 0.4
stik s kožo, sistemsko, dolgoročno	= 53.75 mg/kg bw/dan	ECETOC TRA Delojemalec v2.0	= 0.51

1.3. CS5: Scenarij, ki prispeva Delojemalec: Redčenje koncentratov in ravnanje z njimi (PROC19)

Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti	Stopnja izpostavljenosti	Metoda izračuna	Stopnja opredelitve tveganja (RCR)
inhalacijski, dolgoročno	= 6.47 mg/m³	ECETOC TRA Delojemalec v2.0	= 0.18
stik s kožo, sistemsko, dolgoročno	= 14.14 mg/kg bw/dan	ECETOC TRA Delojemalec v2.0	= 0.13

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

Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:

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