Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

SKIL REMOVE

Date of first edition: 6/19/2024

Safety Data Sheet dated 20/07/2026 version 2

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

1.1. Product identifier

Mixture identification:

Trade name: SKIL REMOVE

Trade code: S100FS230 11

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

Recommended use: Water-based preservative coat

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.
Aquatic Chronic 2	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

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe vapours.
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

2-octyl-2H-isothiazol-3-one

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: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: SKIL REMOVE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥1-<3 %	2,2' -oxybisethanol; diethylene glycol	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6	Acute Tox. 4, H302	01-2119457857-21
≥0.25-<0.3 %	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS:68424-85-1 EC:270-325-2	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10	
<0.036 %	2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 2, H330; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100 Specific Concentration Limits: C ≥ 0.0015%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw	
<0.036 %	Sulphuric acid	CAS:7664-93-9 EC:231-639-5 Index:016-020-00-8	Skin Corr. 1A, H314 Specific Concentration Limits: C ≥ 15%: Skin Corr. 1A H314 5% ≤ C < 15%: Skin Irrit. 2 H315 5% ≤ C < 15%: Eye Irrit. 2 H319	01-2119458838-20
<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

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 (CO_2).

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.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

2,2' -oxybisethanol; diethylene glycol

CAS: 111-46-6	NATIONAL	AUSTRIA	Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm Notes: 15(Miw), 4x, MAK Source: GKV, BGBl. II Nr. 156/2021
	NATIONAL	GERMANY	Long Term: 44 mg/m3 - 10 ppm Notes: DFG, Y, 11, 4(II) Source: TRGS 900
	NATIONAL	DENMARK	Long Term: 11 mg/m3 - 2.5 ppm Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm Notes: A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	CROATIA	Long Term: 101 mg/m3 - 23 ppm Source: NN 1/2021
	NATIONAL	IRELAND	Long Term: 100 mg/m3 - 23 ppm Source: 2021 Code of Practice
	NATIONAL	LITHUANIA	Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	LATVIA	Long Term: 10 mg/m3 Source: KN325P1
	NATIONAL	POLAND	Long Term: 10 mg/m3 Notes: 4) Source: Dz.U. 2018 poz. 1286
	NATIONAL	ROMANIA	Long Term: 500 mg/m3 - 115 ppm; Short Term: 800 mg/m3 - 184 ppm Source: Republicarea 1 - nr. 743 din 29 iulie 2021
	NATIONAL	SLOVAKIA	Long Term: 44 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	SLOVENIA	Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm Notes: Y Source: UL št. 72, 11. 5. 2021
	NATIONAL	SWEDEN	Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm Notes: H, V Source: AFS 2021:3
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 101 mg/m3 - 23 ppm Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	SUVA	SWITZERLAND	Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm Notes: SSC, 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

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1	NATIONAL	AUSTRIA	Long Term: 0.05 mg/m3; Short Term: Ceiling - 0.05 mg/m3 Notes: Mow, MAK, H, S, E Source: BGBl. II Nr. 156/2021
	NATIONAL	GERMANY	Long Term: 0.05 mg/m3 Notes: DFG, H, Y, E, 2(I) Source: TRGS 900
	NATIONAL	SLOVENIA	Long Term: 0.05 mg/m3; Short Term: 0.1 mg/m3 Notes: K, Y, (I) Source: UL št. 72, 11. 5. 2021
	SUVA	SWITZERLAND	Long Term: 0.05 mg/m3; Short Term: 0.1 mg/m3 Notes: TWA mg/m3: (i), R/H, S, VRS / OAW Source: suva.ch/valeurs-limites

Sulphuric acid

CAS: 7664-93-9	ACGIH	Long Term: 0.2 mg/m3 (8h) Notes: T, A2M - Pulm func
	EU	Long Term: 0.05 mg/m3 (8h) Notes: thoracic fraction
	NATION AUSTRIA AL	Long Term: 0.1 mg/m3; Short Term: Ceiling - 0.2 mg/m3 Notes: Mow, 8x, MAK, E, TMW entspricht 0, 05 mg/m³ thorakal Bei der Auswahl einer geeigneten Messmethode sind allfällige Störungen durch andere Schwefel- verbindungen zu vermeiden. Source: BGBl. II Nr. 156/2021
	NATION BELGIUM AL	Long Term: 0.2 mg/m3 Notes: C, 9 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATION BULGARIA AL	Long Term: 0.05 mg/m3 Notes: 2, 3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATION CYPRUS AL	Long Term: 0.05 mg/m3 Notes: 8, 9 (2012) Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATION CZECHIA AL	Long Term: 0.05 mg/m3 Notes: (1), (2) Source: Nařízení vlády č. 361-2007 Sb Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3 Notes: (1), (2) Source: Nařízení vlády č. 361-2007 Sb
	NATION GERMANY AL	Long Term: 0.1 mg/m3 Notes: DFG, EU, Y, E, 1(I) Source: TRGS 900
	NATION DENMARK AL	Long Term: 0.05 mg/m3 Notes: E Source: BEK nr 2203 af 29/11/2021
	NATION SPAIN AL	Long Term: 0.05 mg/m3 Notes: VLI, s, d, az Source: LEP 2022
	NATION ESTONIA AL	Long Term: 0.05 mg/m3 Notes: 28, 29 Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATION FINLAND AL	Long Term: 0.05 mg/m3; Short Term: 0.1 mg/m3 Notes: torakaalijae Source: HTP-ARVOT 2020
	NATION FRANCE AL	Long Term: 0.05 mg/m3; Short Term: 3 mg/m3 Notes: La VLEP 8h s'applique à la fraction thoracique de l'aérosol. Source: INRS outil65, arrêté du 30-06-2004 modifié
	NATION GREECE AL	Long Term: 0.05 mg/m3 Notes: (7) (8) Source: ΦΕΚ 19/Α` 9.2.2012
	NATION CROATIA AL	Long Term: 0.05 mg/m3 Notes: (12) (13) Source: 2009/161/EU
	NATION HUNGARY AL	Long Term: 0.05 mg/m3 Notes: m, EU3, N Source: 5/2020. (II. 6.) ITM rendelet
	NATION IRELAND AL	Long Term: 0.05 mg/m3 Notes: IOELV Source: 2021 Code of Practice
	NATION ITALY AL	Long Term: 0.05 mg/m3 Notes: Frazione toracica Source: D.lgs. 81/2008, Allegato XXXVIII
	NATION LITHUANIA AL	Long Term: 0.05 mg/m3; Short Term: 3 mg/m3 Notes: Renkantis tinkamą poveikio stebėsenos modelį turi būti atsižvelgiama į galimus apribojimus i trukdžius, galinčius kilti, kai esama kitų sieros junginių. Rūkas (migla) apibrėžiamas kaip įkvepiama dalis.

			Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	LUXEMBOURG	Long Term: 0.05 mg/m3 Notes: 15 16 Source: Mémorial A n.226 du 22 mars 2021
	NATIONAL	LATVIA	Long Term: 0.05 mg/m3 Notes: 3 Source: KN325P1
	NATIONAL	MALTA	Long Term: 0.05 mg/m3 Notes: 11, 12 Source: S.L.424.24
	NATIONAL	NETHERLANDS	Long Term: 0.05 mg/m3 Source: Arbeidsomstandighedenregeling - Lijst B1
	NATIONAL	NORWAY	Long Term: 0.1 mg/m3 Notes: K E Source: FOR-2021-06-28-2248
	NATIONAL	POLAND	Long Term: 0.05 mg/m3 Notes: 13) Source: Dz.U. 2018 poz. 1286
	NATIONAL	PORTUGAL	Long Term: 0.05 mg/m3 Notes: (8) (9) Source: Decreto-Lei n.º 1/2021
	NATIONAL	ROMANIA	Long Term: 0.05 mg/m3 Notes: Particule lichide pulverizate, (10)(11), Dir. 2009/161 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
	NATIONAL	SLOVAKIA	Long Term: 0.05 mg/m3 Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	SLOVENIA	Long Term: 0.05 mg/m3; Short Term: 0.05 mg/m3 Notes: Y, EU3, (I) Source: UL št. 72, 11. 5. 2021
	NATIONAL	SWEDEN	Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 Notes: C, V, 3, 46 Source: AFS 2021:3
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 0.05 mg/m3 Notes: The mist is defined as the thoracic fraction Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	SUVA	SWITZERLAND	Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 Notes: TWA mg/m3: (i), C1#A, SSC, Poumons / Lunge, IFA NIOSH OSHA, Pas de risque accru de cancer si la VME est respectée / Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts Source: suva.ch/valeurs-limites

triisobutyl phosphate

CAS: 126-71-6	NATIONAL	AUSTRIA	Long Term: 50 mg/m3; Short Term: Ceiling - 100 mg/m3 Notes: 60(Mow), 3x, MAK Source: BGBl. II Nr. 156/2021
	NATIONAL	GERMANY	Long Term: 50 mg/m3 Notes: AGS, Sh, 11, 2 (II) Source: TRGS 900
	NATIONAL	SLOVENIA	Long Term: 50 mg/m3; Short Term: 100 mg/m3 Source: UL št. 72, 11. 5. 2021

2-Aminoethanol; ethanolamine

CAS: 141-43-5	ACGIH		Long Term: 3 ppm (8h); Short Term: 6 ppm Notes: Eye and skin irr
	EU		Long Term: 2.5 mg/m3 - 1 ppm (8h); Short Term: 7.6 mg/m3 - 3 ppm Notes: Skin
	NATIONAL	AUSTRIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: 15(Miw), 4x, MAK, Sh Source: GKV, BGBl. II Nr. 156/2021

NATIONAL	BELGIUM	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	BULGARIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATIONAL	CYPRUS	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
NATIONAL	CZECHIA	Long Term: 2.5 mg/m3; Short Term: Ceiling - 7.5 mg/m3 Notes: I Source: Nařízení vlády č. 361-2007 Sb
NATIONAL	GERMANY	Long Term: 0.5 mg/m3 - 0.2 ppm Notes: DFG, EU, Y, Sh, H, 11, 1(I) Source: TRGS 900
NATIONAL	DENMARK	Long Term: 2.5 mg/m3 - 1 ppm Notes: EH Source: BEK nr 2203 af 29/11/2021
NATIONAL	SPAIN	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.5 mg/m3 - 3 ppm Notes: vía dérmica, VLI Source: LEP 2022
NATIONAL	ESTONIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: A 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 Notes: iho Source: HTP-ARVOT 2020
NATIONAL	FRANCE	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
NATIONAL	GREECE	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Δ Source: ΦΕΚ 202/Α` 23.8.2007
NATIONAL	CROATIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: koža Source: 2006/15/EZ
NATIONAL	HUNGARY	Long Term: 2.5 mg/m3; Short Term: 7.6 mg/m3 Notes: b, EU2, T Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	IRELAND	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Sk, IOELV Source: 2021 Code of Practice
NATIONAL	ITALY	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Cute Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	LITHUANIA	Long Term: 8 mg/m3 - 3 ppm; Short Term: 15 mg/m3 - 6 ppm Notes: O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATIONAL	LUXEMBOURG	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Peau Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	LATVIA	Long Term: 0.5 mg/m3 - 0.2 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Āda Source: KN325P1
NATIONAL	MALTA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: skin Source: S.L.424.24
NATIONAL	NETHERLANDS	Long Term: 2.5 mg/m3; Short Term: 7.6 mg/m3 Notes: H Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL	NORWAY	Long Term: 2.5 mg/m3 - 1 ppm Notes: H E Source: FOR-2021-06-28-2248
NATIONAL	POLAND	Long Term: 2.5 mg/m3; Short Term: 7.5 mg/m3 Notes: skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	PORTUGAL	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: 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 Notes: P, Dir. 2006/15 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVAKIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SLOVENIA	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: K, Y, EU2 Source: UL št. 72, 11. 5. 2021
NATIONAL	SWEDEN	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.5 mg/m3 - 3 ppm Notes: H Source: AFS 2021:3
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 2.5 mg/m3 - 1 ppm; Short Term: 7.6 mg/m3 - 3 ppm Notes: Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
SUVA	SWITZERLAND	Long Term: 5 mg/m3 - 2 ppm; Short Term: 10 mg/m3 - 4 ppm Notes: S, Peau Fatigue Yeux / Haut Fatigue 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

Predicted No Effect Concentration (PNEC) values

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1	Exposure Route: Fresh Water; PNEC Limit: 2.2 mg/m3
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.22 mg/m3
	Exposure Route: Marine water; PNEC Limit: 220 ng/l
	Exposure Route: Intermittent releases (marine water); PNEC Limit: 122 ng/l
	Exposure Route: Freshwater sediments; PNEC Limit: 47.5 µg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 47.5 µg/kg
	Exposure Route: Soil; PNEC Limit: 8.2 µg/kg

Sulphuric acid

CAS: 7664-93-9	Exposure Route: Fresh Water; PNEC Limit: 2.5 mg/m3
	Exposure Route: Marine water; PNEC Limit: 250 ng/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8.8 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 2 µg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 2 µg/kg

Derived No Effect Level (DNEL) values

Sulphuric acid

CAS: 7664-93-9	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 50 µg/m³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 100 µg/m³

8.2. Exposure controls

Eye protection:

Eye glasses.

Protection for skin:

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

Protection for hands:

Nitrile rubber .

Respiratory protection:

Use adequate protective respiratory equipment.

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:	Light red
Odour:	Light
pH:	>=3.90<=4.10 Method: OECD 122
Kinematic viscosity:	Not Relevant Notes: Not determined, as it is not required for CLP classification
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	N.A.
Flash point:	> 100°C / 212°F
Lower and upper explosion limit:	Not Relevant Notes: Not applicable as the mixture is not flammable
Relative vapour density:	N.A.
Vapour pressure:	23.00 (kPa 50°C). hPa @ 20°C
Density and/or relative density:	1.10 g/cm3 Method: ISO 2811
Solubility in water:	Soluble
Solubility in oil:	Not Relevant Notes: Not determined, as it is not required for CLP classification
Partition coefficient n-octanol/water (log value):	Not Relevant Notes: Not applicable to mixtures
Auto-ignition temperature:	Not Relevant Notes: Not applicable as the mixture is not flammable
Decomposition temperature:	Not Relevant Notes: Not applicable, as the mixture is not self-reactive
Flammability:	Not Relevant Notes: Not applicable as the mixture is not flammable
Volatile Organic compounds - VOCs =	1.10%; 12.10g/L

Particle characteristics:

Particle size:	N.A.

9.2. Other information

Explosive properties:	Not Relevant Notes: Not applicable, the mixture contains no explosive groups

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

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:

2,2' -oxybisethanol; diethylene glycol

CAS: 111-46-6	a) acute toxicity	LD50 Oral Rat = 16500 mg/kg
		LC50 Inhalation of aerosol Rat > 4.6 mg/l 4h
		LD50 Skin Rabbit = 13300 mg/kg
	b) skin corrosion/irritation	Skin Irritant Human Negative 24h
	c) serious eye damage/irritation	Eye Irritant Rabbit No 24h
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative
	f) carcinogenicity	Genotoxicity Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 3060 mg/kg

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1	a) acute toxicity	ATE - Oral: 125 mg/kg bw
		ATE - Dermal: 311 mg/kg bw
		LD50 Oral Rat = 125 mg/kg
		LC50 Inhalation Mist Rat = 0.27 mg/l 4h
		LD50 Skin Rabbit = 311 mg/kg
	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 Positive

Sulphuric acid

CAS: 7664-93-9	a) acute toxicity	LD50 Oral Rat = 2140 mg/kg
		LC50 Inhalation of aerosol Rat = 375 mg/m3

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:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

List of Eco-Toxicological properties of the components

2,2' -oxybisethanol; diethylene glycol

CAS: 111-46-6	a) Aquatic acute toxicity: LC50 Fish = 75200 mg/L 96h
	b) Aquatic chronic toxicity: NOEC Fish Pimephales promelas = 15380 mg/L
	a) Aquatic acute toxicity: EC50 invertebrates > 10000 mg/L 48h
	a) Aquatic acute toxicity: NOEC Algae Scenedesmus quadricauda = 100 mg/L
	d) Terrestrial toxicity: LC50 Worm Eisenia andrei = 10974 mg/kg

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1	a) Aquatic acute toxicity: LC50 Fish freshwater fish = 0.122 mg/L
	b) Aquatic chronic toxicity: EC10 Fish = 0.022 mg/L
	a) Aquatic acute toxicity: EC50 freshwater invertebrates = 0.181 mg/L
	b) Aquatic chronic toxicity: EC10 freshwater invertebrates = 0.035 mg/L
	LC50 Algae freshwater algae = 0.15 mg/L

Sulphuric acid

CAS: 7664-93-9	a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 16 mg/L 96h
	b) Aquatic chronic toxicity: NOEC Fish Jordanella floridae = 0.02 mg/L
	a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 100 mg/L 48h
	b) Aquatic chronic toxicity: NOEC Tanytarsus dissimilis = 0.15 mg/L
	a) Aquatic acute toxicity: NOEC Algae Desmodesmus subspicatus = 100 mg/L 72h
	c) Bacteria toxicity: NOEC Sludge = 26000 mg/L

12.2. Persistence and degradability

2,2' -oxybisethanol; diethylene glycol

CAS: 111-46-6	Readily biodegradable	Test: CO2 production; Value: 92 Notes: 28days

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1 Non-readily biodegradable

12.3. Bioaccumulative potential

2,2' -oxybisethanol; diethylene glycol

CAS: 111-46-6	Bioaccumulative	Test: BCF - Bioconcentrantion factor; Value: 100 Notes: 3day

2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1	Bioaccumulative	Test: BCF - Bioconcentrantion factor; Value: 19.21 Notes: L/kg ww

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.

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

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.

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

3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - 2-octyl-2H-isothiazol-3-one)

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - 2-octyl-2H-isothiazol-3-one)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - 2-octyl-2H-isothiazol-3-one)

14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Most important toxic component: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-A, S-F

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 9

ADR - Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601 650

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

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197 A215

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 375 969

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).

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):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: E2	200	500

Explosives precursors – Regulation 2019/1148

No substances listed

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

No substances listed

German Water Hazard Class.

Class 2: hazardous for water.

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

REGULATION (EU) No 528/2012

Nomenclature IUPAC: N-benzyl-N,N-dimethyltetradecan-1-aminium chloride

Nomenclature BPR: ADBAC/BKC(C12-16)

CAS number: 68424-85-1

Product-type 10: Construction material preservatives

Assessment status: Initial application for approval in progress.

Nomenclature IUPAC: octhilinone (ISO); 2-octyl-2H-isothiazol-3-one

Nomenclature BPR: OIT

CAS number: 26530-20-1

Product-type 6: Preservatives for products during storage

Assessment status: Initial application for approval in progress.

Product-type 7: Film preservatives

Assessment status: Initial application for approval in progress.

Product-type 8: Film preservatives

Assessment status: Approved

Commission Implementing Regulation EU 2017/1277

Product-type 10: Construction material preservatives

Assessment status: Initial application for approval in progress

15.2. Chemical safety assessment

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

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

2,2' -oxybisethanol; diethylene glycol

SECTION 16: Other information

Code	Description
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), 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
3.2/1	Skin Corr. 1	Skin corrosion, Category 1
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
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
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
EUH071		EUH071

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
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 2, H411	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 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Exposure Scenario

2,2'-oxydiethanol; diethylene glicol

Exposure Scenario, 07/07/2021

Substance identity	
	2,2'-oxydiethanol; diethylene glicol
CAS No.	111-46-6
INDEX No.	603-140-00-6
EINECS No.	203-872-2
Registration number	01-2119457857-21

Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC1)

1. ES 1 Widespread use by professional workers; Various products (PC9a, PC1)

1.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants
Date - Version	07/07/2021 - 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) - Adhesives, sealants (PC1)

Environment Contributing Scenario

CS1	ERC8a - ERC8d - ERC8c - ERC8f

Worker Contributing Scenario

CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d, ERC8c, ERC8f)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) - Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8a, ERC8d, ERC8c, ERC8f)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 0.8 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

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

Vapour pressure:

= 0.8 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to = 480 min

Frequency:

Use frequency = 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

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

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

Process Categories	Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 0.8 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to = 480 min

Frequency:

Use frequency = 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation	Inhalation - minimum efficiency of: = 80 %

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.

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

Vapour pressure:

= 0.8 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to = 480 min

Frequency:

Use frequency = 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

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 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.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d, ERC8c, ERC8f)

Additional information on exposure estimation:

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 13.7143 mg/kg bw/day	ECETOC TRA worker v3	= 0.318937
inhalative, systemic, long-term	= 22.1084 mg/m³	ECETOC TRA worker v3	= 0.502464

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 2.7429 mg/kg bw/day	ECETOC TRA worker v3	= 0.063787
inhalative, systemic, long-term	= 22.1084 mg/m³	ECETOC TRA worker v3	= 0.502464

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)
dermal, systemic, long-term	= 13 mg/kg bw/day	ECETOC TRA worker v3	= 0.302326
inhalative, systemic, long-term	= 6.3 mg/m³	ECETOC TRA worker v3	= 0.143182

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.