

Safety Data Sheet

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

KERAKOVER ECO SILICATO DI ETILE

Date of first edition: 11/10/2021 Safety Data Sheet dated 17/06/2025

version 3

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

1.1. Product identifier

Mixture identification:

Trade name: KERAKOVER ECO SILICATO DI ETILE

Trade code: 02112021 -2

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

Recommended use: Paints/coatings - Protective and functional 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)

Flam. Liq. 3 Flammable liquid and vapour.

STOT SE 3 May cause drowsiness or dizziness.

Asp. Tox. 1 May be fatal if swallowed and enters airways.

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.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves and eye protection.

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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P501 Dispose of contents/container to ...

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

propan-2-ol; isopropyl alcohol; isopropanol

Dir. 2004/42/EC (VOC directive)

Binding primers

EU limit value for this product (cat. A/h): 750 g/l

This product contains max 730.62 g/l VOC.

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

None.

2.3. Other hazards

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

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

NΑ

3.2. Mixtures

Mixture identification: KERAKOVER ECO SILICATO DI ETILE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥70-<90 %	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		Asp. Tox. 1, H304; Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119463258-33
≥5-<10 %	propan-2-ol; isopropyl alcohol; isopropanol	CAS:67-63-0 EC:200-661-7 Index:603-117-00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336)	01-2119457558-25
≥1-<3 %	tetraethyl silicate; ethyl silicate	CAS:78-10-4 EC:201-083-8 Index:014-005-00-0	Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335; Acute) Tox. 4, H332	01-2119496195-28

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.

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:

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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 all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

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

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

6.3. Methods and material for containment and cleaning up

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

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

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:

None in particular.

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)

OEL Type Country Occupational Exposure Limit ACGIH

propan-2-ol; isopropyl alcohol; isopropanol

CAS: 67-63-0

Long Term: 200 ppm (8h); Short Term: 400 ppm

A4, BEI - Eye and URT irr, CNS impair

Long Term: 500 mg/m3 - 200 ppm; Short Term: 2000 mg/m3 - 800 ppm NATIONAL AUSTRIA

Page n. 3 of 13 20/06/2025 **Production Name** KERAKOVER ECO SILICATO DI ETILE Date

15(Miw), 4x, MAK

Source: BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 980 mg/m3; Short Term: 1225 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 500 mg/m3; Short Term: Ceiling - 1000 mg/m3

Ι

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 490 mg/m3 - 200 ppm

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 350 mg/m3 - 150 ppm; Short Term: 600 mg/m3 - 250 ppm

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

NATIONAL FINLAND Long Term: 500 mg/m3 - 200 ppm; Short Term: 620 mg/m3 - 250 ppm

Source: HTP-ARVOT 2020

NATIONAL FRANCE Short Term: 980 mg/m3 - 400 ppm

Source: INRS outil65

NATIONAL GREECE Long Term: 980 mg/m3 - 400 ppm; Short Term: 1225 mg/m3 - 500 ppm

Source: ΦEK 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 500 mg/m3; Short Term: 1000 mg/m3

b, i, R

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

NATIONAL LATVIA Long Term: 350 mg/m3; Short Term: 600 mg/m3

Source: KN325P1

NATIONAL LITHUANIA Long Term: 350 mg/m3 - 150 ppm; Short Term: 600 mg/m3 - 250 ppm

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

NATIONAL NORWAY Long Term: 245 mg/m3 - 100 ppm

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 900 mg/m3; Short Term: 1200 mg/m3

skóra

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 500 mg/m3 - 200 ppm; Short Term: 1000 mg/m3 - 400 ppm

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 350 mg/m3 - 150 ppm; Short Term: 600 mg/m3 - 250 ppm

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Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 500 mg/m3 - 200 ppm; Short Term: 1000 mg/m3 - 400 ppm

SSC, B, VRS Foie SNC Yeux / OAW Laber ZNS Auge, INRS NIOSH

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm

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

GREAT BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 500 mg/m3 - 200 ppm; Short Term: 1000 mg/m3 - 400 ppm

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

NATIONAL CROATIA Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm

Source: NN 1/2021

NATIONAL GERMANY Long Term: 500 mg/m3 - 200 ppm

DFG, Y, 2(II) Source: TRGS 900

NATIONAL IRELAND Long Term: 200 ppm; Short Term: 400 ppm

Sk

Source: 2021 Code of Practice

NATIONAL ROMANIA Long Term: 200 mg/m3 - 81 ppm; Short Term: 500 mg/m3 - 203 ppm

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

NATIONAL SLOVENIA Long Term: 500 mg/m3 - 200 ppm; Short Term: 1000 mg/m3 - 400 ppm

Y, BAT

Source: UL št. 72, 11. 5. 2021

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NATIONAL SPAIN Long Term: 500 mg/m3 - 200 ppm; Short Term: 1000 mg/m3 - 400 ppm

VLB®, s

Source: LEP 2022

tetraethyl silicate; ethyl

silicate

CAS: 78-10-4

ACGIH Long Term: 10 ppm (8h)
URT and eye irr, kidney dam

NATIONAL AUSTRIA

Long Term: 44 mg/m3 - 5 ppm; Short Term: Ceiling - 88 mg/m3 - 10 ppm

5(Mow), 8x, MAK

Source: BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 44 mg/m3 - 5 ppm

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 44 mg/m3; Short Term: Ceiling - 176 mg/m3

I

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 44 mg/m3 - 5 ppm

Е

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 44 mg/m3 - 5 ppm

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

NATIONAL FINLAND Long Term: 43 mg/m3 - 5 ppm; Short Term: 86 mg/m3 - 10 ppm

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 44 mg/m3 - 5 ppm

Source: INRS outil65, arrêté du 30-06-2004 modifié

NATIONAL HUNGARY Long Term: 44 mg/m3

i, EU4, N

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

NATIONAL NETHERLAND Long Term: 44 mg/m3

Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL NORWAY Long Term: 44 mg/m3 - 5 ppm

Е

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 44 mg/m3

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 44 mg/m3 - 5 ppm

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 44 mg/m3 - 5 ppm; Short Term: 86 mg/m3 - 10 ppm

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 44 mg/m3 - 5 ppm

D Nez / Nase, NIOSH

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 44 mg/m3 - 5 ppm

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

GREAT BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 44 mg/m3 - 5 ppm

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

NATIONAL CROATIA Long Term: 44 mg/m3 - 5 ppm

Source: 2017/164/EU

NATIONAL CYPRUS Long Term: 44 mg/m3 - 5 ppm

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

του 2001 ἑως 2021

NATIONAL GERMANY Long Term: 12 mg/m3 - 1.4 ppm

AGS, 1(I)

Source: TRGS 900

NATIONAL GREECE Long Term: 44 mg/m3 - 5 ppm

Source: Π.Δ. 82/2018 (ΦΕΚ 152/A` 21.8.2018)

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NATIONAL IRELAND Long Term: 44 mg/m3 - 5 ppm

IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 44 mg/m3 - 5 ppm

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

NATIONAL LATVIA Long Term: 44 mg/m3 - 5 ppm

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 44 mg/m3 - 5 ppm

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 44 mg/m3 - 5 ppm

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 44 mg/m3 - 5 ppm

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 44 mg/m3 - 5 ppm

Dir. 2017/164

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

NATIONAL SLOVENIA Long Term: 44 mg/m3 - 5 ppm; Short Term: 44 mg/m3 - 5 ppm

EU4

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 44 mg/m3 - 5 ppm

VLI

Source: LEP 2022

EU Long Term: 44 mg/m3 - 5 ppm (8h)

Biological limit values

propan-2-ol; isopropyl alcohol; isopropanol CAS: 67-63-0 Biological Indicator: Acetone; Sampling Period: End of turn

Value: 25 mg/L; Medium: Urine

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 25 mg/L; Medium: Blood

Predicted No Effect Concentration (PNEC) values

propan-2-ol; isopropyl alcohol; isopropanol

CAS: 67-63-0

Exposure Route: Fresh Water; PNEC Limit: 140.9 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 140.9 mg/l

Exposure Route: Marine water; PNEC Limit: 140.9 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2251 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 552 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 552 mg/kg

Exposure Route: Soil; PNEC Limit: 28 mg/kg

Exposure Route: Secondary poisoning; PNEC Limit: 160 mg/kg

tetraethyl silicate; ethyl

silicate CAS: 78-10-4 Exposure Route: Fresh Water; PNEC Limit: 190 μ g/l

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

Exposure Route: Marine water; PNEC Limit: $19 \mu g/l$

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 4000 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 830 $\mu g/kg$ Exposure Route: Marine water sediments; PNEC Limit: 83 $\mu g/kg$

Exposure Route: Soil; PNEC Limit: 50 μg/kg

Derived No Effect Level (DNEL) values

propan-2-ol; isopropyl alcohol; isopropanol CAS: 67-63-0

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

Consumer: 89 mg/m³

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

Consumer: 319 mg/kg

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

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Consumer: 26 mg/kg

tetraethyl silicate; ethyl

silicate

CAS: 78-10-4

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

Consumer: 14 mg/m³

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

Consumer: 14 mg/m³

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

Worker Professional: 56 mg/kg; Consumer: 3 mg/kg

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

Worker Professional: 56 mg/kg; Consumer: 3 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

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

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Colourless

Odour: Like: Hydrocarbons, aliphatic

Odour threshold: N.A. pH: Not Relevant

Kinematic viscosity: <= 20,5 mm2/sec (40 °C)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: > 120 °C (248 °F)

Flash point: 36 °C (97 °F)

Lower and upper explosion limit: N.A.

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

Density and/or relative density: 0.81 g/cm3

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

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

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

Flammability: The product is classified Flam. Liq. 3 H226 Volatile Organic compounds - VOCs = 90.2~%; 730.62~g/l

Particle characteristics:

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

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

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

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

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 Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: STOT SE 3(H336)

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Hydrocarbons, C9-C11, n- a) acute toxicity

alkanes, isoalkanes, cyclics, <2% aromatics

LD50 Oral Rat > 5000 mg/kg

LC50 Inhalation Vapour Rat > 5000 mg/m3 8h

LD50 Skin Rabbit > 2000 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative 4h

c) serious eye damage/irritation

Eye Irritant Rabbit No

d) respiratory or skin sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Rat Negative

Inhalation route

Mouse intraperitoneal rout

Carcinogenicity Inhalation Rat Positive

g) reproductive toxicity No Observed Adverse Effect Level Rat > 20000

mg/m3

propan-2-ol; isopropyl alcohol; isopropanol

a) acute toxicity

LD50 Oral Rat = 5840 mg/kg

LC50 Inhalation Vapour Rat > 10000 Ppm 6h

LD50 Skin Rabbit = 16.4 ml/Kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative 4h

c) serious eye damage/irritation

f) carcinogenicity

Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

Genotoxicity Negative

Carcinogenicity = 5000 Ppm NOEC for mouse

tetraethyl silicate; ethyl a) acute toxicity LD50 Oral Rat > 2500 mg/kg

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LC50 Inhalation of aerosol Rat = 10 mg/l 4h

LD50 Skin Rabbit = 6.3 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative 4h

c) serious eye damage/irritation Eye Irritant Rabbit No

d) respiratory or skin sensitisation

Skin Sensitization Guineapig Negative

g) reproductive toxicity

No Observed Adverse Effect Level Oral = 12.5

Mouse

mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatic		a) Aquatic acute toxicity: LL50 Fish Oncorhynchus mykiss = 10 mg/L 96h
		a) Aquatic acute toxicity: EL50 Daphnia Daphnia magna = 4.5 mg/L 48h
		b) Aquatic chronic toxicity : NOELR Daphnia Daphnia magna = 2.6 mg/L $$ - 21days
		a) Aquatic acute toxicity : NOELR Algae Pseudokirchnerella subcapitata = $0.5 \mathrm{mg/L} 72 \mathrm{h}$
propan-2-ol; isopropyl alcohol; isopropanol	CAS: 67-63-0 - EINECS: 200- 661-7 - INDEX: 603-117-00-0	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 9640 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 10000 mg/L 24h OECD guideline 202
		d) Terrestrial toxicity: LC50 Drosophila melanogaster = 25.1 g/L 24h
		e) Plant toxicity: IC50 Lactuca sativa = 2104 mg/kg 72h
tetraethyl silicate; ethyl silicate	CAS: 78-10-4 - EINECS: 201- 083-8 - INDEX: 014-005-00-0	a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio > 245 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 75 mg/L 48h

a) Aquatic acute toxicity: EC50 Algae Pseudokirchnerella subcapitata > 22

mg/L 72h

a) Aquatic acute toxicity : EC50 Sludge activated sludge > 100 mg/L 3h OECD

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12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes:	
propan-2-ol; isopropyl alcohol; isopropanol	Readily biodegradable	Biochemical oxigen demand			
tetraethyl silicate; ethyl silicate	Persistent and Biodegradable	Dissolved organic carbon	98.000	28days	

12.3. Bioaccumulative potential

N.A.

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. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

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):

NΑ

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

Marine pollutant: No Environmental Pollutant: No IMDG-EMS: F-E, <u>S-E</u>

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: - ADR-Special Provisions: 163 367 650

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

ADR Limited Quantities: 5 L ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 355 IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

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

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

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

Regulation (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 (LO) II. 2010/1179 (ATT 9 CLI

Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 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. 2020/878

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

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

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

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

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

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.

1: Low hazard to waters

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 90.20 %

Volatile Organic compounds - VOCs = 730.62 g/L

15.2. Chemical safety assessment

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

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

propan-2-ol; isopropyl alcohol; isopropanol

SECTION 16: Other information

H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airway	s.
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
a		

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
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method

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

Repeated exposure may cause skin dryness or cracking.

Highly flammable liquid and vapour.

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.

Description

Code EUH066

H225

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

 ${\tt EINECS: European\ Inventory\ of\ Existing\ Commercial\ Chemical\ Substances.}$

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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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).

 ${\tt IMDG: International \ Maritime \ Code \ for \ Dangerous \ Goods.}$

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:

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

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Exposure Scenario, 29/07/2021

Substance identity	
	Propan-2-ol
CAS No.	67-63-0
INDEX No.	603-117-00-0
EINECS No.	200-661-7
Registration number	01-2119457558-25

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)

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Exposure Scenario name	Professional application of coatings and inks
Date - Version	29/07/2021 - 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
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Handling and dilution of concentrates	PROC19

1.2 Conditions of use affecting exposure

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

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) (ERC8a, ERC8d)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 35 %

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:

< 100000 Pa

Concentration of substance in product:

Covers concentrations up to 35 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

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

Personal protection

For further specification, refer to section 8 of the SDS.

Other conditions affecting worker exposure

Covers indoor and outdoor 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:

< 100000 Pa

Concentration of substance in product:

Covers concentrations up to 35 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

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

Personal protection

For further specification, refer to section 8 of the SDS.

Other conditions affecting worker exposure

Covers indoor and outdoor 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:

< 100000 Pa

Concentration of substance in product:

Covers concentrations up to 35 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Carry out in a vented booth or extracted enclosure.

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

Personal protection

For further specification, refer to section 8 of the SDS.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

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

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

Process Categories

Manual activities involving hand contact (PROC19)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 100000 Pa

Concentration of substance in product:

Covers concentrations up to 35 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

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

Personal protection

For further specification, refer to section 8 of the SDS.

Other conditions affecting worker exposure

Covers indoor and outdoor 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)

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)
inhalative	= 100 ppm	ECETOC TRA worker v2.0	= 0.5
dermal	= 13.71 mg/kg bw/day	ECETOC TRA worker v2.0	= 0

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	= 100 ppm	ECETOC TRA worker v2.0	= 0.5
dermal	= 27.43 mg/kg bw/day	ECETOC TRA worker v2.0	= 0

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

indicator (RCR)	Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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	inhalative	= 150 ppm	ECETOC TRA worker v2.0	= 0.7
-	dermal	= 107.14 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.1

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	= 150 ppm	ECETOC TRA worker v2.0	= 0.5
dermal	= 141.43 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.2

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.