

Safety Data Sheet

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

L34 HYBRID

Date of first edition: 11/29/2021 Safety Data Sheet dated 23/01/2024

version 3

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

1.1. Product identifier

Mixture identification:

Trade name: L34 HYBRID
Trade code: S100B0283 .042

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

Recommended use: Adhesives, sealants

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 Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112

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)

No specific hazards are encountered under normal product use.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Special Provisions:

EUH210 Safety data sheet available on request.

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: Crystalline silica in breathable fraction present in the product does not contribute to the hazard classification according to the criteria laid down by the EC Regulation 1272/2008 (CLP) by virtue of the physical state of the product itself (liquid/solid paste) as it is marketed and reasonably be expected to be used. (Position IMA-Europe, Classification of mixtures in liquid form containing crystalline silica (May 2020)). The liquid/solid paste mixture, due to hardening or exposure to heat, can lose its liquid content (water and other liquid components) and appear in a solid state; in case of handling of the solid mixture for disposal (non-compliant product) it is necessary to apply the appropriate preventive measures referred to in section 13.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: L34 HYBRID

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

Qty Name Ident. Numb. Classification Registration Number

3-4.9 % CAS:14808-60-7 STOT RE 1, H372

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1-2.9 % Trimethoxyphenylsilane

CAS:2996-92-1 Acute Tox. 4, H302; STOT RE 2, 01-2119964479-19

EC:221-066-9 H373

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

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

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

6.3. Methods and material for containment and cleaning up

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

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

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

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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)

| , | OEL Type | Country | Occupational Exposure Limit |
|---|----------|-----------------|---|
| Quartz CAS: 14808-60-7 | ACGIH | | Long Term: 0.025 mg/m3 (8h) R, A2 - Pulm fibrosis, lung cancer |
| | NATIONAL | AUSTRALIA | Long Term: 0.05 mg/m3 Respirable fraction |
| | NATIONAL | AUSTRIA | Long Term: 0.05 mg/m3 MAK, III C, A -Respirable fraction Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BELGIUM | Long Term: 0.1 mg/m3 C - Respirable fraction Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 0.1 mg/m3 Source: NN 1/2021 |
| | NATIONAL | DENMARK | Long Term: 0.3 mg/m3 Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | DENMARK | Long Term: 0.1 mg/m3 EK Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 0.1 mg/m3 1, C Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Long Term: 0.05 mg/m3 alveolijae, liite 3 Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 0.1 mg/m3 La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline. Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATIONAL | HUNGARY | Long Term: 0.1 mg/m3 Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | INDIA | Long Term: 10 mg/m3 (8h) |
| | NATIONAL | IRELAND | Long Term: 0.1 mg/m3 Respirable fraction Source: 2021 Code of Practice |
| | NATIONAL | ITALY | Long Term: 0.1 mg/m3 Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008 Source: D.lgs. 81/2008, Allegato XXXVIII |
| | NATIONAL | LITHUANIA | Long Term: 0.1 mg/m3 Žiureti 1 priedo 3 punkta. Source: 2011 m. rugsejo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NETHERLAND S | Long Term: 0.075 mg/m3 (2) Source: Arbeidsomstandighedenregeling - Lijst B1 |

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NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SPAIN Long Term: 0.05 mg/m3

Respirable fraction Source: LEP 2022

NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

EU Long Term: 0.1 mg/m3

CAS: 14808-60-7

Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung

cancer. Directive 2017/2398

ACGIH Long Term: 0.025 mg/m3 (8h)

R, A2 - Pulm fibrosis, lung cancer

NATIONAL AUSTRALIA Long Term: 0.05 mg/m3 (8h)

Respirable fraction

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

MAK, III C, A

Source: BGBl. II Nr. 156/2021

NATIONAL BELGIUM Long Term: 0.1 mg/m3

С

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

NATIONAL CROATIA Long Term: 0.1 mg/m3

Source: NN 1/2021

NATIONAL DENMARK Long Term: 0.3 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

ΕK

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

1, C

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

NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

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

NATIONAL HUNGARY Long Term: 0.1 mg/m3 (8h)

Respirable aerosol

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

NATIONAL INDIA Long Term: 10 mg/m3

NATIONAL IRELAND Long Term: 0.1 mg/m3 (8h)

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3 (8h)

Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008

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

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiureti 1 priedo 3 punkta.

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

NATIONAL NETHERLAND Long Term: 0.075 mg/m3

(2)

Source: Arbeidsomstandighedenregeling - Lijst B1

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NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SPAIN Long Term: 0.05 mg/m3 (8h)

Respirable fraction Source: LEP 2022

NATIONAL SWEDEN Long Term: 0.1 mg/m3

methanol

CAS: 67-56-1

C, M, 3

Source: AFS 2021:3

ACGIH Long Term: 200 ppm (8h); Short Term: 250 ppm Skin, BEI - Headache, eye dam, dizziness, nausea

EU Long Term: 260 mg/m3 - 200 ppm (8h)

Skin

NATIONAL AUSTRIA Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm

15(Miw), 4x, MAK, H

Source: BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 260 mg/m3 - 200 ppm

????

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. НАРЕДБА № 10 ОТ 26 СЕПТЕМВРИ

2003

NATIONAL CZECHIA Long Term: 250 mg/m3; Short Term: Ceiling - 1000 mg/m3

D, B

Source: Narízení vlády c. 361-2007 Sb

NATIONAL DENMARK Long Term: 260 mg/m3 - 200 ppm

EΗ

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm

Α

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

NATIONAL FINLAND Long Term: 270 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm

iho

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 260 mg/m3 - 200 ppm; Short Term: 1300 mg/m3 - 1000 ppm

Risque de pénétration percutanée

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

NATIONAL GREECE Long Term: 260 mg/m3 - 200 ppm; Short Term: 325 mg/m3 - 250 ppm

?

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 260 mg/m3

b, i, BEM, EU2, R+T

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

NATIONAL LITHUANIA Long Term: 260 mg/m3 - 200 ppm

O C-

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

NATIONAL NETHERLAND Long Term: 133 mg/m3

Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL NORWAY Long Term: 130 mg/m3 - 100 ppm

ΗE

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 100 mg/m3; Short Term: 300 mg/m3

skóra

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 260 mg/m3 - 200 ppm

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K, 7)

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm

H, V

Source: AFS 2021:3

NATIONAL BELGIUM Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm

D

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

NATIONAL CROATIA Long Term: 260 mg/m3 - 200 ppm

koža

Source: 2006/15/EZ

NATIONAL CYPRUS Long Term: 260 mg/m3 - 200 ppm

d??µa

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

του 2001 έως 2021

NATIONAL GERMANY Long Term: 130 mg/m3 - 100 ppm

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

NATIONAL IRELAND Long Term: 260 mg/m3 - 200 ppm

Sk, IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 260 mg/m3 - 200 ppm

Cute

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

NATIONAL LATVIA Long Term: 260 mg/m3 - 200 ppm

Ada

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 260 mg/m3 - 200 ppm

Peau

G

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 260 mg/m3 - 200 ppm

skin

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 260 mg/m3 - 200 ppm

Cutânea

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 260 mg/m3 - 200 ppm

P, Dir. 2006/15

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

NATIONAL SLOVENIA Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm

K, Y, BAT, EU2

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 266 mg/m3 - 200 ppm

vía dérmica, VLB®, VLI, r

Source: LEP 2022

Predicted No Effect Concentration (PNEC) values

Trimethoxyphenylsilane Exposure Route: Fresh Water; PNEC Limit: 240 μg/l

CAS: 2996-92-1

Exposure Route: Intermittent releases (fresh water); PNEC Limit: $2.4\ mg/l$

Exposure Route: Marine water; PNEC Limit: 24 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 2.4 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 74 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.1 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 110 µg/kg

Exposure Route: Soil; PNEC Limit: 80 μg/kg

Derived No Effect Level (DNEL) values

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

CAS: 2996-92-1 Worker Professional: 40.2 mg/m³; Consumer: 10 mg/m³

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

Worker Professional: 260 mg/m³; Consumer: 50 mg/m³

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

Worker Professional: 260 mg/m³; Consumer: 50 mg/m³

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

Worker Professional: 260 mg/m³; Consumer: 50 mg/m³

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

Worker Professional: 2.5 mg/kg; Consumer: 1.73 mg/kg

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

Consumer: 33.3 mg/kg

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

Consumer: 700 µg/kg

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Colour: White Odour: Light

Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 224 °C (435 °F)

Flash point: > 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.79 g/cm3
Solubility in water: N.A.
Solubility in oil: N.A.

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

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

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.01 % ; 0.26 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

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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

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 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:

a) acute toxicity LD50 Oral > 2000 mg/kg

Trimethoxyphenylsilane a) acute toxicity LD50 Oral Rat = 1049 mg/kg

LD50 Skin Rabbit = 3014 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative 24h

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

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 500

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:

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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

Trimethoxyphenylsilane CAS: 2996-92-1 a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 1400 mg/L 96h

- EINECS: 221- OECD Guideline 203

066-9

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 600 mg/L 96h

OECD Guideline 202

a) Aquatic acute toxicity: EC50 Algae Pseudokirchnerella subcapitata = 120

mg/L 96h OECD Guideline 201

a) Aquatic acute toxicity: NOEC Sludge activated sludge = 1000 mg/L 3h

OFCD 209

12.2. Persistence and degradability

ComponentPersitence/Degradability:
Trimethoxyphenylsilane
Non-readily biodegradable

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. 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 non-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.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

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Road and Rail (ADR-RID):
        ADR-Label: N/A
        ADR - Hazard identification number: N/A
        ADR-Special Provisions: N/A
        ADR-Transport category (Tunnel restriction code): N/A
        ADR Limited Quantities: N/A
        ADR Excepted Quantities: N/A
Air (IATA):
        IATA-Passenger Aircraft: N/A
        IATA-Cargo Aircraft: N/A
        IATA-Label: N/A
        IATA-Subsidiary hazards: N/A
        IATA-Erg: N/A
        IATA-Special Provisions: N/A
Sea (IMDG):
        IMDG-Stowage Code: N/A
        IMDG-Stowage Note: N/A
        IMDG-Subsidiary hazards: N/A
        IMDG-Special Provisions: N/A
14.7. Maritime transport in bulk according to IMO instruments
        N.A.
SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
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Regulation (EU) n. 2021/849 (ATP 17 CLP)

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

Regulation (EU) n. 2020/878

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

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

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 69, 75

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

NΑ

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

No substances listed

German Water Hazard Class.

NWG: Not hazardous for water

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

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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:

Trimethoxyphenylsilane

SECTION 16: Other information

Description

Harmful if swallowed.

| H372 | Causes damage to organs through prolonged or repeated exposure. | | |
|------------|--|---|--|
| H373 | May cause damage to organs through prolonged or repeated exposure. | | |
| Code | Hazard class and hazard category | Description | |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 | |
| 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 | |

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

Main bibliographic sources:

Code

H302

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.

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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 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

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Exposure Scenario, 15/06/2022

| Substance identity | |
|---------------------|------------------------|
| | Trimethoxyphenylsilane |
| CAS No. | 2996-92-1 |
| EINECS No. | 221-066-9 |
| Registration number | 01-2119964479-19 |

Table of contents

1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a); Building and construction work (SU19)

1. ES 1

Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a); Building and construction work (SU19)

1.1 TITLE SECTION

| Exposure Scenario name | Use in rigid foams, coatings, adhesives and sealants |
|------------------------|--|
| Date - Version | 15/06/2022 - 1.0 |
| Life Cycle Stage | Widespread use by professional workers |
| Main user group | Professional uses |
| Sector(s) of use | Professional uses (SU22) - Building and construction work (SU19) |
| Product Categories | Coatings and paints, thinners, paint removers (PC9a) |

Environment Contributing Scenario

| CS1 | ERC8c - ERC8f |
|---|-----------------|
| Worker Contributing Scenario | |
| CS2 Rolling, Brushing - Mixing operations | PROC10 - PROC19 |
| CS3 Roller, spreader, flow application | PROC11 |

1.2 Conditions of use affecting exposure

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

| Environmental release | Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading | | |
|------------------------------|---|--|--|
| categories | inclusion into/onto article (outdoor) (ERC8c, ERC8f) | | |

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Vapour pressure:

= 18.2 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 5 %.

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

Amounts used:

Annual site tonnage = 1 t

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant STP effluent (m³/day): 2000

Other conditions affecting environmental exposure

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

1.2. CS2: Worker Contributing Scenario: Rolling, Brushing - Mixing operations (PROC10, PROC19)

Process CategoriesRoller application or brushing - Manual activities involving hand contact (PROC10, PROC19)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Vapour pressure:

= 18.2 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

Covers exposure up to days per week

Technical and organisational conditions and measures

Technical and organisational measures

Open windows during application to ensure natural ventilation.

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: 80 %

1.2. CS3: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

Vapour pressure:

= 18.2 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

Covers exposure up to days per week

Technical and organisational conditions and measures

Technical and organisational measures

Open windows during application to ensure natural ventilation.

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: 80 %

1.3 Exposure estimation and reference to its source

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

| protection target | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|-------------------|----------------|--------------------|-----------------------------------|
| freshwater | 0.00056 mg/L | EUSES v2.1 | 0.0023 |

| marine water | 5.5E-05 mg/L | EUSES v2.1 | 0.0023 |
|------------------------|---------------------------|------------|---------|
| freshwater sediment | 0.00047 mg/kg wet weight | EUSES v2.1 | 0.002 |
| marine sediment | 4.6E-05 mg/kg wet weight | EUSES v2.1 | 0.0019 |
| soil | 0.000217 mg/kg wet weight | EUSES v2.1 | 0.0031 |
| Sewage treatment plant | < 1E-06 mg/L | EUSES v2.1 | < 1E-06 |

1.3. CS2: Worker Contributing Scenario: Rolling, Brushing - Mixing operations (PROC10, PROC19)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|------------------------|------------------------|-----------------------------------|
| inhalative, long-term | 2.85 mg/m ³ | Stoffenmanager v5.6.10 | 0.071 |
| dermal, long-term | 0.0274 mg/kg bw/day | ECETOC TRA worker v3 | 0.011 |

1.3. CS3: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|------------------------|------------------------|-----------------------------------|
| inhalative, long-term | 9.66 mg/m ³ | Stoffenmanager v5.6.10 | 0.24 |
| dermal, long-term | 0.0429 mg/kg bw/day | ECETOC TRA worker v3 | 0.017 |

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.