

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations

Date of issue: 09/05/2019 Revision date: 08/22/2025 Version/Replaced version: 7.0/6.0

SECTION 1: Identification

1.1. **Product identifier**

Product form : Mixture

Product name : DIRKO™ HT Grev

Product code : 510.031 (70 ml), 074.723 (310 ml)

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

Supplier

Use of the substance/mixture : Sealants

Details of the supplier of the safety data sheet

Manufacturer (Germany)

ElringKlinger AG Max-Evth-Straße 2

72581 Dettingen/Erms - Germany

Fon +49 (0)7123 724 799

det.iam.sdb@elringklinger.com

Manufacturer (USA)

ElringKlinger Texas, LLC.

Ridgeview 35 4210 IH-35

San Antonio, TX 78218 - USA

Fon +1 210 253 8182

Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Carcinogenicity, Category 1A

Specific target organ toxicity - Repeated exposure, Category 1 H372 Sensitization - Skin, Category 1 H317

Full text of H-phrases: see section 16

Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

: P201 - Obtain special instructions before use. Precautionary statements (GHS-US)

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust, vapors, spray. P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water and soap. P308+P313 - If exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to an authorized waste collection point.

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2.3. Other hazards

Substances formed under the conditions of use:

| Name | Product identifier | % | GHS-US Classification in accordance with paragraph (d) of § 1910.1200 |
|------------------------|--------------------|-----|---|
| 2-Pentanone, oxime | (CAS No) 623-40-5 | ≤ 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| Ethanol, ethyl alcohol | (CAS No) 64-17-5 | ≤ 1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US Classification in accordance with paragraph (d) of § 1910.1200 |
|--|----------------------|----------------|--|
| Quartz | (CAS No) 14808-60-7 | 15 - 40 | Carc. 1A, H350 STOT RE 1, H372 |
| Silica | (CAS No) 112945-52-5 | 5 - 10 | Not classified |
| 2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime | (CAS No) 58190-62-8 | 1 - 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| 2-Pentanone, O,O',O"-(methylsilylidyne)trioxime | (CAS No) 37859-55-5 | 1 - 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |
| Titanium dioxide | (CAS No) 13463-67-7 | 1 - 5 | Carc. 2, H351 |
| 3-aminopropyltriethoxysilane | (CAS No) 919-30-2 | 0.1 - 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Octamethylcyclotetrasiloxane | (CAS No) 556-67-2 | 0.01 - < 0.079 | Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410 (M=10) |

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-statements: see section 16

SECTION 4: First aid measures

| 4.1. | Description | of first aid | measures |
|------|-------------|--------------|----------|

First aid measures general : If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery

position.

First aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First aid measures after ingestion : Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.

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

Symptoms/effects after skin contact : The product is not considered irritating to the skin. May cause an allergic skin reaction.

Symptoms/effects : May cause cancer. Causes damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing agents that suit the environment. Carbon dioxide. Extinguishing powder.

Water spray. For a significant fire: Alcohol resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Silicon oxides.

fire

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Do not breathe dust, vapors.

Emergency procedures : Evacuate unnecessary personnel.

Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear

respiratory protection. For further information refer to section 8: "Exposure controls/personal

protection"

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as

clay or diatomaceous earth as soon as possible.

For containment : Keep in suitable, closed containers for disposal.

Other information : Dispose of in accordance with relevant local regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Ensure good ventilation of the work station. Do not breathe dust, vapors,

spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and

other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Contaminated work clothing should not

be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and

waterways due to the rupture of containers or transfer systems.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated

place. Protect from heat and direct sunlight. Store locked up.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Titanium dioxide (1 | Titanium dioxide (13463-67-7) | |
|---------------------|-------------------------------|--|
| ACGIH | Local name | Titanium dioxide |
| ACGIH | TLV-TWA (mg/m³) | 0.2 mg/m³ (respirable particulate matter; nanoscale particles) 2.5 mg/m³ (respirable particulate matter; fine-scale particles) |
| ACGIH | Remark (ACGIH) | A3 |
| NIOSH | Local name | Titanium dioxide |
| NIOSH | Remark (NIOSH) | Ca, See Appendix A |
| OSHA | Local name | Titanium dioxide |
| OSHA | OSHA PEL (mg/m³) | 15 mg/m³ (total dust) |
| Cal/OSHA | Local name | Particulates Not Otherwise Regulated |
| Cal/OSHA | Cal/OSHA PEL (TWA) (ppm) | 10 mg/m³ (total dust) 5 mg/m³ (respirable fraction) |

| Quartz (14808-60-7) | | |
|---------------------|-------------------------|---|
| ACGIH | Local name | SILICA, CRYSTALLINE - α-QUARTZ |
| ACGIH | TLV-TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| ACGIH | Remark (ACGIH) | A2 |
| NIOSH | Local name | Silica, crystalline ; Quartz |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 0.05 mg/m³ (respirable dust) |
| NIOSH | Remark (NIOSH) | Ca, See Appendix A |
| OSHA | Local name | Quartz (Respirable) |

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| Quartz (14808-60-7) | | |
|---------------------|----------------------------|-------------------------------------|
| OSHA | OSHA PEL (mg/m³) | 10 mg/m³ / (% SiO ₂ +2) |
| OSHA | OSHA PEL (mppcf) | 250 mppcf / (% SiO ₂ +5) |
| Cal/OSHA | Local name | Quartz |
| Cal/OSHA | Cal/OSHA PEL (TWA) (mg/m³) | 0.05 mg/m³ |

| Ethanol (64-17-5) | | |
|-------------------|----------------------------|-------------------------|
| ACGIH | Local name | Ethanol |
| ACGIH | TLV-STEL (ppm) | 1000 ppm |
| ACGIH | TLV-STEL (mg/m³) | 1880 mg/m³ |
| ACGIH | Remark (ACGIH) | A3 |
| NIOSH | Local name | Ethyl alcohol |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 1000 ppm |
| OSHA | Local name | Ethyl alcohol (Ethanol) |
| OSHA | OSHA PEL (TWA) (mg/m³) | 1900 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| Cal/OSHA | Local name | Ethyl alcohol; ethanol |
| Cal/OSHA | Cal/OSHA PEL (TWA) (mg/m³) | 1900 mg/m³ |
| Cal/OSHA | Cal/OSHA PEL (TWA) (ppm) | 1000 ppm |

| Silica (112945-52-5) | Silica (112945-52-5) | |
|----------------------|-------------------------|---|
| NIOSH | Local name | Silica, amorphous (7631-86-9) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 6 mg/m³ |
| OSHA | Local name | Silica: Amorphous, including natural diatomaceous earth |
| OSHA | OSHA PEL (TWA) (mg/m³) | 80 mg/m³ / (% SiO ₂) |
| OSHA | OSHA PEL (TWA) (mppcf) | 20 mppcf |

Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize dust/vapor concentrations.

Individual protection measures, such as personal protective equipment 8.3.

: Wear suitable gloves. Short-term contact: nitrile/neoprene, ≥ 0.2 mm. Prolonged or repeated Hand protection

contact: nitrile, ≥ 1.25 mm. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Eye protection Chemical goggles or safety glasses. Skin and body protection Wear suitable protective clothing.

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state : Solid. Paste. Color : Grey

Odor (includes odor threshold) : No data available Melting point/freezing point : No data available

Boiling point (or initial boiling point or boiling

range)

: No data available

Flammability : No data available Lower and upper explosion limit/flammability : No data available

limit

Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Not applicable Kinematic viscosity Not applicable

Solubility Water: practically insoluble

Acetone, Alcohol: slightly soluble

Aliphatic/aromatic hydrocarbons: dispersible

Chlorinated solvents: dispersible

Partition coefficient n-octanol/water (log value) : Not applicable Vapor pressure (includes evaporation rate) : No data available Density and/or relative density : ~ 1.25 kg/dm3 (20 °C)

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Relative vapor density : Not applicable Particle characteristics : No data available

SECTION 10: Stability and reactivity

Reactivity

Vulcanizes at room temperature and on contact with humidity.

10.2. **Chemical stability**

Stable at ambient temperature and under normal conditions of use and storage.

Possibility of hazardous reactions

None under normal use.

Conditions to avoid

High temperature.

Incompatible materials

Oxidizing agents. Water.

10.6. **Hazardous decomposition products**

In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Silicon oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Not classified : Not classified Skin corrosion/irritation Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer.

| IARC | |
|------|--|

Quartz (14808-60-7)

Group 1: Carcinogenic to humans.

Titanium dioxide (13463-67-7)

IARC Group 2B: Possibly carcinogenic to humans.

Reproductive toxicity : Not classified : Not classified Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated Causes damage to organs through prolonged or repeated exposure.

exposure)

Aspiration hazard : Not classified

Symptoms/effects after inhalation : No known effects from this product. : No known effects from this product. Symptoms/effects after ingestion Symptoms/effects after skin contact : May cause an allergic skin reaction. Symptoms/effects after eye contact : No known effects from this product.

| 2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime (58190-62-8) | | |
|---|-------------------|--|
| LD50 oral rat | 1000 - 2000 mg/kg | |
| LD50 dermal rat | > 2000 mg/kg | |

| 2-Pentanone, O,O',O"-(methylsilylidyne)trioxime (37859-55-5) | |
|--|--------------|
| LD50 oral rat | 1234 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| 3-aminopropyltriethoxysilane (919-30-2) | |
|---|-----------------|
| LD50 oral rat | 1490 mg/kg |
| LD50 dermal rabbit | 4076 mg/kg |
| LC50 inhalation rat (Vapors) | > 145 mg/m³/6 h |

| Octamethylcyclotetrasiloxane (556-67-2) | |
|---|--------------|
| LD50 oral rat | > 4800 mg/kg |
| LD50 dermal rat | > 2375 mg/kg |
| LC50 inhalation rat (Dust/Mist) | 36 mg/l/4 h |

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SECTION 12: Ecological information

12.1. Ecotoxicity

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| 12.1. Ecotoxicity | |
|---|---|
| Ecology - general | : To our knowledge, the product does not present any particular risk, under normal conditions o |
| Noute equatic toxicity | use. : Not classified |
| Acute aquatic toxicity | |
| Chronic aquatic toxicity | : Not classified |
| | The maximum concentration of octamethylcyclotetrasiloxane (556-67-2) that can leach from the product is below the established safety level (< 0.0079 mg/l) for aquatic organisms. |
| 2-Pentanone, O,O',O"-(ethenylsilylidy | ne)trioxime (58190-62-8) |
| LC50 fish | > 100 mg/l 96 h, Oncorhynchus mykiss |
| EC50 daphnia | > 100 mg/l 48 h, Daphnia magna |
| ErC50 algae | 88 mg/l 72 h, Raphidocelis subcapitata |
| NOEC algae | 32 mg/l 72 h, Raphidocelis subcapitata |
| 2-Pentanone, O,O',O"-(methylsilylidyn | |
| LC50 fish | > 100 mg/l 96 h, Oncorhynchus mykiss |
| EC50 daphnia | > 100 mg/l 48 h, Daphnia magna |
| ErC50 algae | 88 mg/l 72 h, Raphidocelis subcapitata |
| NOEC algae | 32 mg/l 72 h, Raphidocelis subcapitata |
| 3-aminopropyltriethoxysilane (919-30- | · |
| LC50 fish | > 934 mg/l 96 h, Danio rerio |
| EC50 daphnia | 331 mg/l 48 h, Daphnia magna |
| EC50 algae | > 1000 mg/l 72 h, Desmodesmus subspicatus |
| NOEC daphnia | > 11.9 mg/l 21 d, Daphnia magna |
| NOEC algae | 1.3 mg/l 72 h, Desmodesmus subspicatus |
| Octamethylcyclotetrasiloxane (556-67 | |
| LC50 fish | > 0.022 mg/l 96 h, Oncorhynchus mykiss |
| EC50 daphnia | > 0.015 mg/l 48 h, Daphnia magna |
| EC50 algae | > 0.022 mg/l 96 h, Raphidocelis subcapitata |
| NOEC fish | ≥ 0.0044 mg/l 93 d, Oncorhynchus mykiss |
| NOEC daphnia | ≥ 0.015 mg/l 21 d, Daphnia magna |
| NOEC algae | < 0.022 mg/l 96 h, Raphidocelis subcapitata |
| 2.2. Persistence and degradability | |
| 2-Pentanone, O,O',O"-(ethenylsilylidy | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 1 %, 28 d (OECD 301 B) |
| 2-Pentanone, O,O',O"-(methylsilylidyn | ne)trioxime (37859-55-5) |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 1 %, 28 d (OECD 301 B) |
| 3-aminopropyltriethoxysilane (919-30- | -2) |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 67 %, 28 d (OECD 301 A) |
| Octamethylcyclotetrasiloxane (556-67 | -2) |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 3.7 %, 29 d (OECD 310) |
| 2.3. Bioaccumulative potential | |
| 2-Pentanone, O,O',O"-(ethenylsilylidy) | ne)trioxime (58190-62-8) |
| | |
| Bioconcentration factor (BCF) | 69.21 l/kg |
| Bioconcentration factor (BCF) 2-Pentanone, O,O',O"-(methylsilylidyn | |
| , , | |
| 2-Pentanone, O,O',O"-(methylsilylidyn | ne)trioxime (37859-55-5) 103.3 l/kg |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) | ne)trioxime (37859-55-5) 103.3 l/kg |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) 3-aminopropyltriethoxysilane (919-30- | ne)trioxime (37859-55-5) 103.3 l/kg -2) 3.4 (OECD 305 C) |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) 3-aminopropyltriethoxysilane (919-30- Bioconcentration factor (BCF) | ne)trioxime (37859-55-5) 103.3 l/kg -2) 3.4 (OECD 305 C) |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) 3-aminopropyltriethoxysilane (919-30- Bioconcentration factor (BCF) Octamethylcyclotetrasiloxane (556-67 | 103.3 l/kg -2) 3.4 (OECD 305 C) 7-2) 12400 l/kg (EPA OTS 797.1520) |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) 3-aminopropyltriethoxysilane (919-30- Bioconcentration factor (BCF) Octamethylcyclotetrasiloxane (556-67 Bioconcentration factor (BCF) Partition coefficient n-octanol/water (Log | 103.3 l/kg 103.4 (OECD 305 C) 7-2) 12400 l/kg (EPA OTS 797.1520) |
| 2-Pentanone, O,O',O"-(methylsilylidyn Bioconcentration factor (BCF) 3-aminopropyltriethoxysilane (919-30- Bioconcentration factor (BCF) Octamethylcyclotetrasiloxane (556-67 Bioconcentration factor (BCF) Partition coefficient n-octanol/water (Log | 103.3 l/kg -2) 3.4 (OECD 305 C) 7-2) 12400 l/kg (EPA OTS 797.1520) |

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12.5. Other adverse effects

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local

regulations.

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point. Do not

empty into drains.

Waste disposal recommendations : Empty the packaging completely prior to disposal. When totally empty, containers are

recyclable like any other packing.

SECTION 14: Transport information

In accordance with DOT / ADR / IMDG / IATA

14.1. UN number

UN-No. (DOT) : Not regulated for transport UN-No. (ADR) : Not regulated for transport UN-No. (IMDG) : Not regulated for transport UN-No. (IATA) : Not regulated for transport UN-No. (IATA)

14.2. UN proper shipping name

Proper Shipping Name (DOT) : No additional information available
Proper Shipping Name (ADR) : No additional information available
Proper Shipping Name (IMDG) : No additional information available
Proper Shipping Name (IATA) : No additional information available

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : No additional information available

ADR

Transport hazard class(es) (ADR) : No additional information available

IMDG

Transport hazard class(es) (IMDG) : No additional information available

IATA

Transport hazard class(es) (IATA) : No additional information available

14.4. Packing group

Packing group (DOT) : No additional information available
Packing group (ADR) : No additional information available
Packing group (IMDG) : No additional information available
Packing group (IATA) : No additional information available

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions

DOT

Not applicable

ADR

Not applicable

IMDG

Not applicable

IATA

Not applicable

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory

Active Status: Active

15.2. International regulations

Canada

All substances in this mixture are listed on Canadian DSL (Domestic Sustances List)

EU-Regulations

All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

California Proposition 65

This product contains substances known to the state of California to cause cancer: Silica, crystalline (airborne particles of respirable size), Titanium dioxide (airborne, unbound particles of respirable size).

This product does not contain any substance(s) known to the state of California to cause developmental toxicity.

This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : August 22, 2025

Abbreviations and acronyms:

| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
|--------|---|
| DOT | Department of Transport, U.S. Department of Transportation Ground (49 CFR) |
| EC50 | The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration) |
| IATA | International Air Transport Association |
| IMDG | "International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea |
| LC50 | Lethal Concentration to 50 % of a test population (Median Lethal Concentration) |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| NOEC/L | No Observed Effect Concentration/Level |
| OECD | Organisation for Economic Cooperation and Development |
| SDS | Safety Data Sheet |

Full text of H-phrases:

| r dir toxt of 11 prilabes. | |
|----------------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity – Oral, Category 4 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Carc. 1A | Carcinogenicity, Category 1A |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Eye damage/irritation, Category 1 |
| Eye Irrit. 2 | Eye damage/irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Toxic to reproduction, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Sens. 1 | Sensitization – Skin, Category 1 |
| STOT RE 1 | Specific target organ toxicity (Repeated exposure), Category 1 |
| STOT RE 2 | Specific target organ toxicity (Repeated exposure), Category 2 |
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

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| H373 | May cause damage to organs through prolonged or repeated exposure. |
|------|--|
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

SDS US (GHS HazCom 2024)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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