

# Safety Data Sheet

## PS #250.1

Safety Data Sheet dated: 06/20/2022 - version 4

Date of first edition: 10/22/2021



### 1. IDENTIFICATION

#### Product identifier

Mixture identification:

Trade name: PS #250.1

Trade code: 6PB901W5

#### Recommended use of the chemical and restrictions on use

Recommended use: Coating

Restrictions on use: Not available

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: KM Coatings Mfg.

5301 W. Mohave Street

85043 - Phoenix - AZ - USA

Phone: 602-253-1168

Responsible: Not available

#### Emergency 24 hour numbers:

Chemtrec (800) 424-9300

### 2. HAZARD(S) IDENTIFICATION



#### Classification of the chemical

Flammable Liquids — Category 4

Skin Sensitization, Category 1B

Reproductive toxicity, Category 2

Specific target organ toxicity following repeated exposure, Category 2

Combustible liquid

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.

May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

#### Label elements

##### Pictograms and Signal Words



Warning

#### Hazard statements:

H227 Combustible liquid

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

#### Precautionary statements:

P201 Obtain special instructions before use.

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

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P260 Do not breathe mist/vapours/spray.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

|           |  |
|-----------|--|
| P321      | Specific treatment (see supplementary instructions on this label)        |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.         |
| P363      | Wash contaminated clothing before reuse.                                 |
| P370+P378 | In case of fire, use a dry powder fire extinguisher to extinguish.       |
| P403+P235 | Store in a well-ventilated place. Keep cool.                             |
| P405      | Store locked up.   |
| P501      | Dispose of contents/container in accordance with applicable regulations. |

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Not Relevant

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

| Concentration (%) w/w | Name  | Ident. Numb.   | Classification  | Registration Number |
|-----------------------|---|--|---|---------------------|
| 5-10 %                | 2-butanone, o,o',o''-(methylsilylydyne)trioxime; Methyltris(Methylethylketoxime) silane       | CAS:22984-54-9<br>EC:245-366-4                       | Eye Irrit. 2A, H319; Skin Sens. 1B, H317; STOT RE 2, H373                     |                     |
| 5-10 %                | titanium dioxide; Dioxotitanium   | CAS:13463-67-7<br>EC:236-675-5<br>Index:022-006-00-2 | Carc. 2, H351   |                     |
| 2.5-5 %               | octamethylcyclotetrasiloxane; Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-                 | CAS:556-67-2<br>EC:209-136-7<br>Index:014-018-00-1   | Flam. Liq. 3, H226; Repr. 2, H361; Aquatic Chronic 4, H413                    |                     |
| 0.49-1 %              | n-[3-(trimethoxysilyl)propyl] ethylenediamine; (2-Aminoethyl)(3-(trimethoxysilyl)propyl)amine | CAS:1760-24-3<br>EC:217-164-6                        | Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317 |                     |

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of 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 the hazard label.

In case of Inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

Not available

**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).

Treatment:  
(see paragraph 4.1)

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## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

### Special protective equipment and precautions for fire-fighters

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.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

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

Limit leakages with earth or sand.

### Methods and material for containment and cleaning up

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

Retain contaminated washing water and dispose it.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

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

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

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

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

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Store cool and dry.

Storage temperature: Not available

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

|                   | OEL<br>Type | Country | Long<br>Term<br>mg/m3 | Long<br>Term<br>ppm | Short<br>Term<br>mg/m3 | Short<br>Term<br>ppm | Note |
|-------------------|-------------|---------|-----------------------|---------------------|------------------------|----------------------|------|
| titanium dioxide; | OSHA        |         | 15                    |                     |                        |                      |      |

|       |             |     |    |
|-------|-------------|-----|----|
| ACGIH |             | 10  |    |
| MAK   | GERMANY     | 0.3 |    |
| MAK   | AUSTRIA     | 5   | 10 |
| MAK   | SWITZERLAND | 3   |    |

A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;

Appropriate engineering controls: Not available

#### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

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

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

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

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: viscous liquid various

Odour: Not Relevant

Odour threshold: Not Relevant

pH: Not Relevant

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Flash point: 65 °C (149 °F)

Evaporation rate: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: Not Relevant

Vapour pressure: Not Relevant

Relative density: Not Relevant

Solubility in water: Not Relevant

Solubility in oil: Not Relevant

Partition coefficient (n-octanol/water): Not Relevant

Auto-ignition temperature: Not Relevant

Decomposition temperature: Not Relevant

Viscosity: Not Relevant

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Solid/gas flammability: Not Relevant

### Other information

Substance Groups relevant properties Not Relevant

Miscibility: Not Relevant

Fat Solubility: Not Relevant

Conductivity: Not Relevant

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable

### Chemical stability

Data not available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

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**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Toxicological information of the mixture:**

- |                                      |   |
|--------------------------------------|---|
| a) acute toxicity                    | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| b) skin corrosion/irritation         | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| c) serious eye damage/irritation     | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| d) respiratory or skin sensitisation | The product is classified: Skin Sensitization, Category 1B(H317)  |
| e) germ cell mutagenicity            | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| f) carcinogenicity                   | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| g) reproductive toxicity             | The product is classified: Reproductive toxicity, Category 2(H361)                                      |
| h) STOT-single exposure              | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |
| i) STOT-repeated exposure            | The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373) |
| j) aspiration hazard                 | Not classified  |
|                                      | Based on available data, the classification criteria are not met  |

**Toxicological information on main components of the mixture:**

- |  |                   |                                  |
|--|-------------------|----------------------------------|
| titanium dioxide;<br>Dioxotitanium   | a) acute toxicity | LD50 Oral Rat > 10000 mg/kg      |
| octamethylcyclotetrasiloxane;<br>Cyclotetrasiloxane,<br>2,2,4,4,6,6,8,8-<br>octamethyl-      | a) acute toxicity | LD50 Skin Rabbit = 794 µL/kg     |
|  |                   | LC50 Inhalation Rat = 36 g/m3 4h |
|  |                   | LD50 Oral Rat = 1540 mg/kg       |
|  |                   | LD50 Skin Rabbit = 794 µL/kg     |
|  |                   | LC50 Inhalation Rat = 36 g/m3 4h |
| n-[3-(trimethoxysilyl)propyl]ethylenediamine; (2-Aminoethyl)(3-(trimethoxysilyl)propyl)amine | a) acute toxicity | LD50 Oral Rat = 2413 mg/kg       |

**Substance(s) listed on the IARC Monographs:**

titanium dioxide; Dioxotitanium Group 2B

**Substance(s) listed as OSHA Carcinogen(s):**

titanium dioxide; Dioxotitanium

**Substance(s) listed as NIOSH Carcinogen(s):**

titanium dioxide; Dioxititanium

**Substance(s) listed on the NTP report on Carcinogens:**

None

**12. ECOLOGICAL INFORMATION****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

Based on available data, the classification criteria are not met

**List of components with eco-toxicological properties****Component****Ident. Numb. Ecotox Infos**

octamethylcyclotetrasiloxane;  
Cyclotetrasiloxane, 2,2,4,4,6,6,8,  
8-octamethyl-

CAS: 556-67-2 -  
EINECS: 209-  
136-7 - INDEX:  
014-018-00-1

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio > 500 mg/L 96h  
IUCLID

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus > 1000 mg/L 96h  
IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

DOT-UN Number: Not Applicable

ADR-UN number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

**UN proper shipping name**

DOT-Proper Shipping Name: Not Applicable

ADR-Shipping Name: Not Applicable

IATA-Technical name: Not Applicable

IMDG-Technical name: Not Applicable

**Transport hazard class(es)**

DOT-Hazard Class: Not Applicable

ADR-Class: Not Applicable

IATA-Class: Not Applicable

IMDG-Class: Not Applicable

**Packing group**

DOT-Packing group: Not Applicable

ADR-Packing Group: Not Applicable

IATA-Packing group: Not Applicable

IMDG-Packing group: Not Applicable

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: Not Applicable

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not Applicable

**Special precautions**

Department of Transportation (DOT):

Not Applicable

Road and Rail ( ADR-RID ) :

Not Applicable

Air ( IATA ) :

Not Applicable

Sea ( IMDG ) :

Not Applicable

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**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

2-butanone, o,o',o''- is listed in TSCA Section 8b  
(methylsilyldiyl)trioxime;  
Methyltris(Methylethylketoxime)  
silane

titanium dioxide; Dioxotitanium is listed in TSCA Section 8b

octamethylcyclotetrasiloxane; is listed in TSCA Section 8b Section 8a - PAIR Section 12b  
Cyclotetrasiloxane, 2,2,4,4,6,6,8,  
8-octamethyl-

n-[3- is listed in TSCA Section 8b  
(trimethoxysilyl)propyl]  
ethylenediamine; (2-  
Aminoethyl)(3-  
(trimethoxysilyl)propyl)amine

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

No substances listed

**Section 304 - Hazardous substances:**

No substances listed

**Section 313 - Toxic chemical list:**

No substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

No substances listed

**CAA - Clean Air Act****CAA listed substances:**

No substances listed

**CWA - Clean Water Act****CWA listed substances:**

No substances listed

**USA - State specific regulations****California Proposition 65****Substance(s) listed under California Proposition 65:**

titanium dioxide; Dioxotitanium Listed as carcinogen

**Massachusetts Right to know****Substance(s) listed under Massachusetts Right to know:**

titanium dioxide; Dioxotitanium

**Pennsylvania Right to know****Substance(s) listed under Pennsylvania Right to know:**

titanium dioxide; Dioxotitanium

**New Jersey Right to know****Substance(s) listed under New Jersey Right to know:**

titanium dioxide; Dioxotitanium

**Canada - Federal regulations****DSL - Domestic Substances List****DSL Inventory:**

All the substances are listed in the DSL.

**NDSL - Non Domestic Substances List****NDSL Inventory:**

No substances listed

**NPRI - National Pollutant Release Inventory****Substances listed in NPRI:**

No substances listed

**16. OTHER INFORMATION**

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**Additional classification information**

NFPA Health: 1 = Slight

NFPA Flammability: 2 = Combustible liquid

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.



NFPA

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

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

This SDS cancels and replaces any preceding release.

| <b>Code</b> | <b>Description</b>   |
|-------------|--|
| H226        | Flammable liquid and vapour.                                       |
| H227        | Combustible liquid   |
| H315        | Causes skin irritation.  |
| H317        | May cause an allergic skin reaction.                               |
| H318        | Causes serious eye damage.   |
| H319        | Causes serious eye irritation.                                     |
| H351        | Suspected of causing cancer.                                       |
| H361        | Suspected of damaging fertility or the unborn child.               |
| H373        | May cause damage to organs through prolonged or repeated exposure. |
| H413        | May cause long lasting harmful effects to aquatic life.            |



| <b>Code</b> | <b>Hazard class and hazard category</b> | <b>Description</b>   |
|-------------|---|--|
| A.2/2       | Skin Irrit. 2                           | Skin irritation, Category 2  |
| A.3/1       | Eye Dam. 1                              | Serious eye damage, Category 1   |
| A.3/2A      | Eye Irrit. 2A                           | Eye irritation, Category 2A  |
| A.4.2/1     | Skin Sens. 1                            | Skin Sensitization, Category 1   |
| A.4.2/1B    | Skin Sens. 1B                           | Skin Sensitization, Category 1B  |
| A.6/2       | Carc. 2                                 | Carcinogenicity, Category 2  |
| A.7/2       | Repr. 2                                 | Reproductive toxicity, Category 2                                      |
| A.9/2       | STOT RE 2                               | Specific target organ toxicity following repeated exposure, Category 2 |
| B.6/3       | Flam. Liq. 3                            | Flammable Liquids — Category 3   |
| B.6/4       | Flam. Liq. 4                            | Flammable Liquids — Category 4   |
| US-HAE/C4   | Aquatic Chronic 4                       | Chronic (long term) aquatic hazard, category 4                         |

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

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 2. HAZARDS IDENTIFICATION
- 6. ACCIDENTAL RELEASE MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION