

Safety Data Sheet

ULTRABOND ECO MS 4 LVT NA

Safety Data Sheet dated: 06/12/2024 - version 6

Date of first edition: 05/28/2019



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ULTRABOND ECO MS 4 LVT NA

Trade code: 9035852

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: Not available

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

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Skin Sensitization, Category 1

May cause an allergic skin reaction.

Label elements

Hazard pictograms and Signal Word



Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing vapours.
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.
P321 Specific treatment (see supplementary instructions on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
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

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|------------|---|--|--|-----------------------|
| 2.5-5 % | titanium dioxide; Dioxotitanium | CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2 | Carc. 2, H351 | |
| 2.5-5 % | vinyltrimethoxysilane; Trimethoxyvinylsilane | CAS:2768-02-7 EC:220-449-8 Index:014-049-00-0 | Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Sens. 1B, H317 | 01-2119513215-52-XXXX |
| 0.1-0.25 % | bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester | CAS:41556-26-7 EC:255-437-1 | Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | |

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:

- Remove casualty to fresh air and keep warm and at rest.

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)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- 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.

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.
- 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

- Handle in a well ventilated place.
- Keep away from food, drink and feed.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

| | OEL Type | Country | Occupational Exposure Limit |
|---|----------|-------------|--|
| titanium dioxide; Dioxotitanium CAS: 13463-67-7 | OSHA | | Long Term: 15 mg/m3 |
| | ACGIH | | Long Term: 10 mg/m3 A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation; |
| | MAK | GERMANY | Long Term: 0.3 mg/m3 |
| | ACGIH | | Long Term: 10 mg/m3 A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation |
| | MAK | AUSTRIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3 |
| | MAK | SWITZERLAND | Long Term: 3 mg/m3 |

Predicted No Effect Concentration (PNEC) values

| | |
|--|---|
| vinyltrimethoxysilane; Trimethoxyvinylsilane CAS: 2768-02-7 | Exposure Route: Fresh Water; PNEC Limit: 0.34 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 0.034 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 1.24 mg/kg |
| | Exposure Route: Marine water sediments; PNEC Limit: 0.12 mg/kg |
| | Exposure Route: Intermittent release; PNEC Limit: 3.4 mg/l |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyloxy) ester | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l |

Exposure Route: Soil; PNEC Limit: 0.21 mg/kg
 Exposure Route: Intermittent release; PNEC Limit: 0.009 mg/l
 Exposure Route: Fresh Water; PNEC Limit: 0.0022 mg/l
 Exposure Route: Marine water; PNEC Limit: 0.000022 mg/l
 Exposure Route: Freshwater sediments; PNEC Limit: 1.05 mg/kg
 Exposure Route: Marine water sediments; PNEC Limit: 0.11 mg/kg

Derived No Effect Level (DNEL) values

vinyltrimethoxysilane;
 Trimethoxyvinylsilane
 CAS: 2768-02-7

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
 Worker Industry: 0.69 mg/kg; Consumer: 0.3 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
 Worker Industry: 4.9 mg/m³; Consumer: 1.04 mg/m³

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyloxy) ester
 CAS: 41556-26-7

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
 Worker Industry: 2.5 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
 Worker Industry: 2.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
 Worker Industry: 2.35 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
 Worker Industry: 2.35 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
 Worker Industry: 2.35 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
 Consumer: 1.25 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
 Consumer: 1.25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
 Consumer: 0.58 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
 Consumer: 0.58 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
 Consumer: 1.25 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
 Consumer: 1.25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
 Consumer: 0.58 mg/m³

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid
Appearance and colour: paste white
Odour: mild
Odour threshold: Not Relevant
pH: Not Relevant
Melting point / freezing point: Not Relevant
Initial boiling point and boiling range: Not Relevant
Flash point: 93.3 °C (199.9 °F)
Evaporation rate: Not Relevant
Upper/lower flammability or explosive limits: Not Relevant
Vapour density: Not Relevant
Vapour pressure: Not Relevant
Relative density: 1.35 g/cm³
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

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Data not available.

Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

Conditions to avoid

Heat and open flames.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

| | |
|--------------------------------------|--|
| a) acute toxicity | Not classified Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | Not classified Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation | Not classified Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | The product is classified: Skin Sensitization, Category 1(H317) |
| e) germ cell mutagenicity | Not classified Based on available data, the classification criteria are not met |

| | |
|---------------------------|--|
| f) carcinogenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| g) reproductive toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| h) STOT-single exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| j) aspiration hazard | Not classified |
| | Based on available data, the classification criteria are not met |

Toxicological information on main components of the mixture:

titanium dioxide; a) acute toxicity LD50 Oral Rat > 10000 mg/kg
Dioxotitanium

vinyltrimethoxysilane; a) acute toxicity LD50 Oral Rat = 6899 mg/kg
Trimethoxyvinylsilane

LD50 Skin Rat = 3158 mg/kg
LC50 Inhalation Vapour Rat = 16.8 mg/l 4h

bis(1,2,2,6,6-pentamethyl-4-piperidyl) a) acute toxicity LD50 Oral Rat = 2615 mg/kg
sebacate; Decanedioic
acid, bis(1,2,2,6,6-pentamethyl-4-
piperidiny) ester

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; Dioxotitanium

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 Eco-Toxicological properties of the components

| Component | Ident. Numb. | Ecotox Data |
|--|-------------------------------------|--|
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester | CAS: 41556-26-7 - EINECS: 255-437-1 | a) Aquatic acute toxicity : EC50 Daphnia = 20 mg/L 24h |

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0.97 mg/L 96h

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: No

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) :

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

titanium dioxide; Dioxotitanium is listed in TSCA Section 8b

vinyltrimethoxysilane; is listed in TSCA Section 8b

Trimethoxyvinylsilane

bis(1,2,2,6,6-pentamethyl-4- is listed in TSCA Section 8b

piperidyl) sebacate; Decanedioic

acid, bis(1,2,2,6,6-pentamethyl-4-

piperidiny) ester

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

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

16. OTHER INFORMATION

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability

for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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.

| Code | Description |
|------|---|
| H226 | Flammable liquid and vapour. |
| H317 | May cause an allergic skin reaction. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

| Code | Hazard class and hazard category | Description |
|-------------|----------------------------------|--|
| A.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 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 |
| B.6/3 | Flam. Liq. 3 | Flammable Liquids — Category 3 |
| US-HAE/A1 | Aquatic Acute 1 | Acute aquatic hazard, category 1 |
| US-HAE/C1 | Aquatic Chronic 1 | Chronic (long term) aquatic hazard, category 1 |

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:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION

- 16. OTHER INFORMATION