



SAFETY DATA SHEET

MATERION

1. Identification

Product identifier Zinc Titanate

Other means of identification

SDS number 2NU

Materion Code 2NU

CAS number 12036-43-0

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Materion Advanced Chemicals Inc.

Address 407 N 13th Street
1316 W. St. Paul Avenue
Milwaukee, WI 53233
United States

Telephone 414.212.0290

E-mail advancedmaterials@materion.com

Contact person Laura Hamilton

Emergency phone number Chemtrec 800.424.9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed.

Precautionary statement

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

Response IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|--------------------------|------------|-----|
| Zinc Titanate | | 12036-43-0 | 100 |

4. First-aid measures

| | |
|---|---|
| Inhalation | Move into fresh air and keep at rest. If not breathing, give artificial respiration. If exposed or concerned: get medical attention/advice. |
| Skin contact | Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. |
| Eye contact | Flush eyes with water as a precaution. |
| Ingestion | Never give anything by mouth to an unconscious person. Rinse mouth. Call a poison center or doctor/physician. |
| Most important symptoms/effects, acute and delayed | Nausea, vomiting. Abdominal pain. |
| General information | Remove victim immediately from source of exposure. If you feel unwell, seek medical advice (show the label where possible). |

5. Fire-fighting measures

| | |
|--|--|
| Suitable extinguishing media | Dry chemical, CO ₂ , water spray or alcohol resistant foam. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Decomposition of this product may yield metallic oxides. |
| Special protective equipment and precautions for firefighters | Wear self-contained breathing apparatus and protective clothing. |
| Fire fighting equipment/instructions | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| General fire hazards | Decomposition in a fire produces toxic fumes. |

6. Accidental release measures

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Wear necessary protective equipment. Avoid generation and spreading of dust. Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid inhalation of dust. Ensure adequate ventilation. |
| Methods and materials for containment and cleaning up | Pick up and arrange disposal without creating dust. Sweep up or vacuum up spillage and collect in suitable container for disposal. |
| Environmental precautions | Prevent entry into drains. |

7. Handling and storage

| | |
|---|--|
| Precautions for safe handling | Avoid conditions which create dust. Wear protective gloves/protective clothing/eye protection/face protection. |
| Conditions for safe storage, including any incompatibilities | Keep container in a well-ventilated place. Store in a dry place. |

8. Exposure controls/personal protection

| | |
|--|--|
| Occupational exposure limits | This substance has no PEL, TLV, or other recommended exposure limit. |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Minimize dust generation and accumulation. Provide adequate general and local exhaust ventilation. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin protection | |
| Hand protection | Use protective gloves. |
| Other | Wear necessary protective equipment. |
| Respiratory protection | If ventilation is insufficient, suitable respiratory protection must be provided. |
| Thermal hazards | Not available. |

9. Physical and chemical properties

Appearance

| | |
|--|----------------|
| Physical state | Solid. |
| Form | Powder. |
| Color | White. |
| Odor | None. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Molecular formula | O3TiZn |
| Molecular weight | 161.24 g/mol |
| Specific gravity | 5.17 |

10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | Not available. |
| Chemical stability | Stable at normal conditions. |
| Possibility of hazardous reactions | Not known. |
| Conditions to avoid | None under normal conditions. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Titanium/titanium oxides Zinc/zinc oxides |

11. Toxicological information

Information on likely routes of exposure

| | |
|--------------|----------------|
| Inhalation | Not available. |
| Skin contact | Not available. |
| Eye contact | Not available. |
| Ingestion | Not available. |

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

| | |
|-----------------------------------|----------------|
| Acute toxicity | Not available. |
| Skin corrosion/irritation | Not available. |
| Serious eye damage/eye irritation | Not available. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not available. |
| Skin sensitization | Not available. |
| Germ cell mutagenicity | Not available. |

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

| | |
|--|----------------|
| Reproductive toxicity | Not available. |
| Specific target organ toxicity - single exposure | Not available. |
| Specific target organ toxicity - repeated exposure | Not available. |
| Aspiration hazard | Not available. |

12. Ecological information

| | |
|-------------------------------|--|
| Ecotoxicity | No ecotoxicity data noted for the ingredient(s). |
| Persistence and degradability | Not available. |
| Bioaccumulative potential | Not available. |
| Mobility in soil | Not available. |
| Other adverse effects | Not available. |

13. Disposal considerations

| | |
|---------------------------------------|--|
| Disposal instructions | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Waste from residues / unused products | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information**US federal regulations****Toxic Substances Control Act (TSCA)****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc Titanate (CAS 12036-43-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312 Hazardous chemical Yes**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Zinc Titanate | 12036-43-0 | 100 |

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Priority pollutant
Toxic pollutant**Safe Drinking Water Act (SDWA)** Not regulated.**16. Other information, including date of preparation or last revision**

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