

**SAFETY DATA SHEET****GEON E2517 WHITE (pricing only)**Version Number 1.3  
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# SAFETY DATA SHEET

**GEON E2517 WHITE (pricing only)****Section 1. Identification**

**GHS product identifier** : GEON E2517 WHITE (pricing only)  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : VC10007126  
**Product type** : solid

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

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **GEON Performance Solutions LLC**  
33587 Walker Road, Avon Lake, OH 44012

**Emergency telephone number (with hours of operation)** : 1 (440) 930-1000 or 1 (866) POLYONE  
CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : COMBUSTIBLE DUSTS  
RESPIRATORY SENSITIZATION - Category 1

**GHS label elements**

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## Hazard pictograms



## Signal word

## Hazard statements

- : Danger
- : May form combustible dust concentrations in air.
- : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

## General

## Prevention

## Response

## Storage

## Disposal

## Supplemental label elements

## Hazards not otherwise classified

- : Not applicable.
- : Wear respiratory protection. Avoid breathing dust.
- : IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician.
- : Not applicable.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- : Keep container tightly closed.
- : None known.
- : Not available.

**Section 3. Composition/information on ingredients**

## Substance/mixture

## Chemical name

## Other means of identification

- : Mixture
- : Mixture
- : VC10007126

CAS number/other identifiers

| Ingredient name                               | %       | CAS number |
|-----------------------------------------------|---------|------------|
| Titanium dioxide                              | 10 - 25 | 13463-67-7 |
| 2-Propenenitrile, polymer with Ethenylbenzene | 5 - 10  | 9003-54-7  |
| Dibutyltin mercaptide                         | 1 - 3   | 10584-98-2 |
| Azodicarbonamide                              | 0.3 - 1 | 123-77-3   |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require

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reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Section 4. First aid measures**

**Description of necessary first aid measures**

- |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Inhalation</b>   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure. |
| <b>Skin contact</b> | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ingestion</b>    | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.                                                                                                                                                       |

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

**Potential acute health effects**

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- |                     |   |                                                                                                                                                                                                                   |
|---------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.                                                                                              |
| <b>Inhalation</b>   | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Skin contact</b> | : | No known significant effects or critical hazards.                                                                                                                                                                 |
| <b>Ingestion</b>    | : | No known significant effects or critical hazards.                                                                                                                                                                 |

**Over-exposure signs/symptoms**

- |                     |   |                                                                                                                                          |
|---------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : | Adverse symptoms may include the following:<br>irritation<br>redness                                                                     |
| <b>Inhalation</b>   | : | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>wheezing and breathing difficulties<br>asthma |
| <b>Skin contact</b> | : | No specific data.                                                                                                                        |
| <b>Ingestion</b>    | : | No specific data.                                                                                                                        |

**Indication of immediate medical attention and special treatment needed, if necessary**

- |                                   |   |                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>         | : | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.                                                                                                                                          |
| <b>Specific treatments</b>        | : | No specific treatment.                                                                                                                                                                                                                                                                                       |
| <b>Protection of first-aiders</b> | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

See toxicological information (Section 11)

**Section 5. Firefighting measures**

**Extinguishing media**

- |                                       |   |                                                                                                         |
|---------------------------------------|---|---------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | : | Use dry chemical powder.                                                                                |
| <b>Unsuitable extinguishing media</b> | : | Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. |

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|                                                       |   |                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards arising from the chemical</b>     | : | May form explosible dust-air mixture if dispersed.                                                                                                                                                                                                                                                                 |
| <b>Hazardous thermal decomposition products</b>       | : | May emit Hydrogen Chloride (HCl).<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>sulfur oxides<br>halogenated compounds<br>metal oxide/oxides                                                                                           |
| <b>Special protective actions for fire-fighters</b>   | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| <b>Special protective equipment for fire-fighters</b> | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                                                                                                                                                |

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                                                                                                                                                                                                                             |
| <b>Environmental precautions</b>   | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).                                                                                                                                                                                                                                               |

### Methods and materials for containment and cleaning up

|                    |   |                                                                                                                                                                                                                  |
|--------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Small spill</b> | : | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, |
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**Large spill**

- labeled waste container. Dispose of via a licensed waste disposal contractor.
- : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures**

- : Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene**

- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities**

- : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8. Exposure controls/personal protection****Control parameters****Occupational exposure limits**

| <b>Ingredient name</b>                        | <b>Exposure limits</b>                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Titanium dioxide                              | <b>OSHA PEL 1989 (1989-03-01)</b><br>TWA 10 mg/m3 Form: Total dust<br><b>OSHA PEL (1993-06-30)</b><br>TWA 15 mg/m3 Form: Total dust<br><b>ACGIH TLV (1996-05-18)</b><br>TWA 10 mg/m3                                                                                                                                                                                                                          |
| 2-Propenenitrile, polymer with Ethenylbenzene | None.                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dibutyltin mercaptide                         | <b>ACGIH TLV (1996-05-18) Absorbed through skin.</b><br>TWA 0.1 mg/m3 (as Sn)<br><b>ACGIH TLV (1994-09-01) Absorbed through skin.</b><br>STEL 0.2 mg/m3 (as Sn)<br><b>NIOSH REL (1994-06-01) Absorbed through skin.</b><br>TWA 0.1 mg/m3 (as Sn)<br><b>OSHA PEL 1989 (1989-03-01) Absorbed through skin.</b><br>TWA 0.1 mg/m3 (as Sn) Form: Organic.<br><b>OSHA PEL (1993-06-30)</b><br>TWA 0.1 mg/m3 (as Sn) |
| Azodicarbonamide                              | None.                                                                                                                                                                                                                                                                                                                                                                                                         |

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of

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environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures****Hygiene measures**

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

**Skin protection****Hand protection**

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**

- : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**

- : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Section 9. Physical and chemical properties**

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**Appearance**

|                                              |                                                                      |
|----------------------------------------------|----------------------------------------------------------------------|
| Physical state                               | : solid [Powder.]                                                    |
| Color                                        | : WHITE                                                              |
| Odor                                         | : Not available.                                                     |
| Odor threshold                               | : Not available.                                                     |
| pH                                           | : Not available.                                                     |
| Melting point                                | : Not available.                                                     |
| Boiling point                                | : Not available.                                                     |
| Flash point                                  | : Not available.                                                     |
| Burning time                                 | : Not available.                                                     |
| Burning rate                                 | : Not available.                                                     |
| Evaporation rate                             | : Not available.                                                     |
| Flammability (solid, gas)                    | : Not available.                                                     |
| Lower and upper explosive (flammable) limits | : <b>Lower:</b> Not available.<br><b>Upper:</b> Not available.       |
| Vapor pressure                               | : Not available.                                                     |
| Vapor density                                | : Not available.                                                     |
| Relative density                             | : Not available.                                                     |
| Solubility                                   | : Not available.                                                     |
| Solubility in water                          | : Not available.                                                     |
| Partition coefficient: n-octanol/water       | : Not available.                                                     |
| Auto-ignition temperature                    | : Not available.                                                     |
| Decomposition temperature                    | : Not available.                                                     |
| SADT                                         | : Not available.                                                     |
| Viscosity                                    | : <b>Dynamic:</b> Not available.<br><b>Kinematic:</b> Not available. |

**Aerosol product**

|                                                |                  |
|------------------------------------------------|------------------|
| Heat of combustion                             | : Not available. |
| Ignition distance                              | : Not available. |
| Enclosed space ignition - Time equivalent      | : Not available. |
| Enclosed space ignition - Deflagration density | : Not available. |
| Flame height                                   | : Not available. |
| Flame duration                                 | : Not available. |

**Section 10. Stability and reactivity**

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| Reactivity         | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : Stable under recommended storage and handling conditions (see                              |

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|                                           |   |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Possibility of hazardous reactions</b> | : | Section 7).<br>Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                                                                                                                                                                                          |
| <b>Conditions to avoid</b>                | : | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| <b>Incompatible materials</b>             | : | Avoid contact with acetal homopolymers and acetyl homopolymers during processing.<br>Reactive or incompatible with the following materials:<br>oxidizing materials                                                                                                                                                                                      |
| <b>Hazardous decomposition products</b>   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                                                                                                                                                                                                    |

**Section 11. Toxicological information**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

**Information on toxicological effects****Acute toxicity**

| Product/ingredient name                       | Result                      | Species    | Dose          | Exposure |
|-----------------------------------------------|-----------------------------|------------|---------------|----------|
| Azodicarbonamide                              |                             |            |               |          |
|                                               | LD50 Oral                   | Rat        | 6,400 mg/kg   | -        |
| Remarks - Inhalation:                         | No applicable toxicity data |            |               |          |
| Remarks - Dermal:                             | No applicable toxicity data |            |               |          |
| Dibutyltin mercaptide                         |                             |            |               |          |
|                                               | LD50 Oral                   | Rat        | 510 mg/kg     | -        |
| Remarks - Inhalation:                         | No applicable toxicity data |            |               |          |
| Remarks - Dermal:                             | No applicable toxicity data |            |               |          |
| 2-Propenenitrile, polymer with Ethenylbenzene |                             |            |               |          |
|                                               | LD50 Oral                   | Rat        | 1,800 mg/kg   | -        |
| Remarks - Inhalation:                         | No applicable toxicity data |            |               |          |
| Remarks - Dermal:                             | No applicable toxicity data |            |               |          |
| Titanium dioxide                              |                             |            |               |          |
| Remarks - Oral:                               | No applicable toxicity data |            |               |          |
|                                               | LC50 Inhalation             | Rat - Male | 6.82 Mg/l     | 4 h      |
|                                               | LD50 Dermal                 | Rabbit     | > 5,000 mg/kg | -        |

**Conclusion/Summary** : Mixture.Not fully tested.

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**Irritation/Corrosion**

| Product/ingredient name | Result               | Species | Score | Exposure | Observation |
|-------------------------|----------------------|---------|-------|----------|-------------|
| Titanium dioxide        | Skin - Mild irritant | Human   |       | 72 hrs   | -           |

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization****Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

| Product/ingredient name                       | OSHA | IARC | NTP |
|-----------------------------------------------|------|------|-----|
| 2-Propenenitrile, polymer with Ethenylbenzene | -    | 3    | -   |
| Titanium dioxide                              | -    | 2B   | -   |

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

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Not available.

**Information on likely routes of exposure** : Not available.**Potential acute health effects**

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following: irritation, redness

**Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing, wheezing and breathing difficulties, asthma

**Skin contact** : No specific data.

**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Mixture. Not fully tested.

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

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Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.

**Numerical measures of toxicity****Acute toxicity estimates**

| Route | ATE value      |
|-------|----------------|
| Oral  | 15,305.2 mg/kg |

**Section 12. Ecological information****Toxicity**

| Product/ingredient name                       | Result                      | Species | Exposure |
|-----------------------------------------------|-----------------------------|---------|----------|
| Azodicarbonamide                              |                             |         |          |
| Remarks - Acute - Fish:                       | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic invertebrates.:     | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic plants:             | No applicable toxicity data |         |          |
| Remarks - Chronic - Fish:                     | No applicable toxicity data |         |          |
| Remarks - Chronic - Aquatic invertebrates.:   | No applicable toxicity data |         |          |
| Dibutyltin mercaptide                         |                             |         |          |
| Remarks - Acute - Fish:                       | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic invertebrates.:     | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic plants:             | No applicable toxicity data |         |          |
| Remarks - Chronic - Fish:                     | No applicable toxicity data |         |          |
| Remarks - Chronic - Aquatic invertebrates.:   | No applicable toxicity data |         |          |
| 2-Propenenitrile, polymer with Ethenylbenzene |                             |         |          |
| Remarks - Acute - Fish:                       | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic invertebrates.:     | No applicable toxicity data |         |          |
| Remarks - Acute - Aquatic plants:             | No applicable toxicity data |         |          |
| Remarks - Chronic - Fish:                     | No applicable toxicity data |         |          |
| Remarks - Chronic - Aquatic invertebrates.:   | No applicable toxicity data |         |          |

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|---------------------------------------------------|--------------------------------------|------------------------------------|------|
| Titanium dioxide                                  |                                      |                                    |      |
|                                                   | Acute LC50 > 1,000 Mg/l Marine water | Fish - Fish                        | 96 h |
| <b>Remarks - Acute - Fish:</b>                    | Acute                                |                                    |      |
|                                                   | Acute LC50 3 Mg/l Fresh water        | Aquatic invertebrates. Crustaceans | 48 h |
| <b>Remarks - Acute - Aquatic invertebrates:</b>   | Acute                                |                                    |      |
|                                                   | Acute LC50 6.5 Mg/l Fresh water      | Aquatic invertebrates. Daphnia     | 48 h |
| <b>Remarks - Acute - Aquatic invertebrates:</b>   | Acute                                |                                    |      |
| <b>Remarks - Acute - Aquatic plants:</b>          | No applicable toxicity data          |                                    |      |
| <b>Remarks - Chronic - Fish:</b>                  | No applicable toxicity data          |                                    |      |
| <b>Remarks - Chronic - Aquatic invertebrates:</b> | No applicable toxicity data          |                                    |      |

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| Azodicarbonamide        | 1      | -   | low       |
| Dibutyltin mercaptide   | 3.4    | -   | low       |

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

**Section 13. Disposal considerations**

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions 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 non-recyclable

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products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

|                                          |
|------------------------------------------|
| <b>Section 14. Transport information</b> |
|------------------------------------------|

U.S.DOT 49CFR : Not regulated for transportation.  
Ground/Air/Water

International Air : Consult mode specific transport rules  
ICAO/IATA

International Water : Consult mode specific transport rules  
IMO/IMDG

|                                           |
|-------------------------------------------|
| <b>Section 15. Regulatory information</b> |
|-------------------------------------------|

**U.S. Federal regulations :**

- United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
- United States - TSCA 4(a) - Final Test Rules:** Not listed
- United States - TSCA 4(a) - ITC Priority list:** Not listed
- United States - TSCA 4(a) - Proposed test rules:** Not listed
- United States - TSCA 4(f) - Priority risk review:** Not listed
- United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
- United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
- United States - TSCA 5(e) - Substances consent order:** Not listed
- United States - TSCA 6 - Final risk management:** Not listed
- United States - TSCA 6 - Proposed risk management:** Not listed
- United States - TSCA 8(a) - Chemical risk rules:** Not listed
- United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed

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United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed

United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Rutile, antimony chromium buff  
Vinyl chloride monomer

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed

United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b) : Listed  
Hazardous Air Pollutants (HAPs)  
Clean Air Act Section 602 Class I : Not listed  
Substances  
Clean Air Act Section 602 Class II : Not listed  
Substances  
DEA List I Chemicals (Precursor : Not listed  
Chemicals)  
DEA List II Chemicals (Essential : Not listed  
Chemicals)

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

not applicable

**SARA 311/312**

Classification : COMBUSTIBLE DUSTS  
RESPIRATORY SENSITIZATION - Category 1

**Composition/information on ingredients**

| Name                  | %             | Classification                         |
|-----------------------|---------------|----------------------------------------|
| Azodicarbonamide      | >= 0.3 - <= 1 | RESPIRATORY SENSITIZATION - Category 1 |
| Dibutyltin mercaptide | >= 1 - <= 3   | ACUTE TOXICITY - oral - Category 4     |

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|                                               |               |                                    |
|-----------------------------------------------|---------------|------------------------------------|
| 2-Propenenitrile, polymer with Ethenylbenzene | >= 5 - <= 10  | ACUTE TOXICITY - oral - Category 4 |
| Titanium dioxide                              | >= 10 - <= 25 | CARCINOGENICITY - Category 2       |
| Ethene, chloro-, homopolymer                  | >= 75 - <= 90 | COMBUSTIBLE DUSTS                  |

Not applicable.

**State regulations****Massachusetts**

: None of the components are listed.

**New York**

: None of the components are listed.

**New Jersey**

: The following components are listed:  
 2-Propenenitrile, polymer with Ethenylbenzene  
 Titanium dioxide  
 Ethene, chloro-, homopolymer

**Pennsylvania**

: The following components are listed:  
 Titanium dioxide

**California Prop. 65**

**WARNING:** This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name  | No significant risk level | Maximum acceptable dosage level |
|------------------|---------------------------|---------------------------------|
| Titanium dioxide | -                         | -                               |

**United States inventory (TSCA 8b)** : All components are active or exempted.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

**International regulations****Inventory list**

**Australia** : All components are listed or exempted.  
**Canada** : At least one component is not listed in DSL but all such components are listed in NDSL.  
**China** : All components are listed or exempted.  
**Europe inventory** : All components are listed or exempted.  
**Japan** : Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.

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|                   |   |                                        |
|-------------------|---|----------------------------------------|
| Republic of Korea | : | All components are listed or exempted. |
| Taiwan            | : | All components are listed or exempted. |
| Turkey            | : | Not determined.                        |
| United States     | : | All components are active or exempted. |

**Section 16. Other information****Hazardous Material Information System (U.S.A.)**

|                  |   |   |
|------------------|---|---|
| Health           | * | 0 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**History**

|                                |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of printing               | : | 02/17/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of issue/Date of revision | : | 11/09/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Date of previous issue         | : | 01/21/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Version                        | : | 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Key to abbreviations           | : | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
| References                     | : | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the

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sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.