

Safety Data Sheet

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 Document Group:
 38-7603-4
 Version Number:
 3.01

 Issue Date:
 05/03/21
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Product identifier

3MTM Wind Blade Protection Coating W4600

ID Number(s):

80-6116-2661-7, 80-6116-2717-7

7100170717, 7100170719

Recommended use

Coating, Wind Blade Coating

Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 1-888-3M HELPS (1-888-364-3577)

Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

38-7378-3, 38-7472-4

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05/03/21

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 Document Group:
 38-7378-3
 Version Number:
 7.00

 Issue Date:
 06/24/21
 Supercedes Date:
 04/30/21

SECTION 1: Identification

1.1. Product identifier

3MTM Wind Blade Protection Coating W4600 Part B

Product Identification Numbers

LH-A100-2452-3, 44-0028-4239-9, 80-6116-2663-3, 80-6116-2719-3 7100170795, 7100170721

1.2. Recommended use and restrictions on use

Recommended use

Coating

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Skin Sensitizer: Category 1A.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

May cause an allergic skin reaction.

Precautionary Statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

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

Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Disposal:

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

41% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|------------------------|
| Polyurethane Polyol (NJTSRN 04499600-7366) | Trade Secret* | 30 - 60 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | 20 - 30 Trade Secret * |
| 1,4-Butanediol | 110-63-4 | 5 - 10 Trade Secret * |
| Hydrophobic Fumed Silica | 68909-20-6 | 3 - 7 Trade Secret * |
| Inorganic Filler | 1318-02-1 | 3 - 7 Trade Secret * |
| 2,4-Pentanedione | 123-54-6 | 1 - 5 Trade Secret * |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | 41556-26-7 | < 3 Trade Secret * |
| Polymeric Benzotriazole | 104810-47-1 | < 3 Trade Secret * |
| UV Absorber | 104810-48-2 | < 3 Trade Secret * |
| Dimethyl Sulfoxide | 67-68-5 | < 1 Trade Secret * |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | 82919-37-7 | < 1 Trade Secret * |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

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^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|-------------------------------|------------|--------|----------------------------------|--------------------------------|
| 2,4-Pentanedione | 123-54-6 | ACGIH | TWA:25 ppm | Danger of cutaneous absorption |
| Aluminum, insoluble compounds | 1318-02-1 | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcin |
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m3 | A4: Not class. as human |
| | | | | carcin |
| Titanium Dioxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| Dimethyl Sulfoxide | 67-68-5 | AIHA | TWA:250 ppm | |
| SILICA, AMORPHOUS | 68909-20-6 | OSHA | TWA:20 millions of | |
| | | | particles/cu. ft.;TWA | |
| | | | concentration:0.8 mg/m3 | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an

exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateLiquidColorGray

OdorPolyurethaneOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNot Applicable

Boiling Point Not Application Sense Point Sense Point Not Application Point Not Applicat

Flash Point >=201 °F [Test Method:Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)1.9 %

Flammable Limits(LEL)

Flammable Limits(UEL)

1.9 %

13.2 %

 Vapor Pressure
 <=0.08 mmHg [@ 20 °C]</td>

 Vapor Density
 <=1 [Ref Std: AIR=1]</td>

 Density
 1.46 g/ml

Density 1.40 g/iii

Specific Gravity 1.46 [Ref Std:WATER=1]

Solubility in WaterNegligibleSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data Available

Autoignition temperature>=245 °CDecomposition temperatureNo Data AvailableViscosityNo Data Available

Volatile Organic Compounds <=20 g/l [Test Method: tested per EPA method 24] [Details: as

used, when reacted with part A]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids Strong bases

10.6. Hazardous decomposition products

Substance

Carbon monoxide Carbon dioxide Oxides of Nitrogen

Condition

Oxidation, heat or reaction Oxidation, heat or reaction Oxidation, heat or reaction

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Carcinogenicity:

| Ingredient | CAS No. | Class Description | Regulation |
|------------------|------------|-------------------------------|---|
| Titanium Dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|------------------|----------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation- Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation- | Rat | LC50 > 6.82 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |

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| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
|---|-------------|----------|---|
| 1,4-Butanediol | Dermal | Rat | LD50 > 5,000 mg/kg |
| 1,4-Butanediol | Inhalation- | Rat | LC50 > 5.1 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| 1,4-Butanediol | Ingestion | Rat | LD50 1,500 mg/kg |
| Inorganic Filler | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Inorganic Filler | Inhalation- | Rat | LC50 > 4.57 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Inorganic Filler | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Hydrophobic Fumed Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydrophobic Fumed Silica | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| 77 | (4 hours) | _ | 7770 7410 4 |
| Hydrophobic Fumed Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 2,4-Pentanedione | Dermal | Rabbit | LD50 790 mg/kg |
| 2,4-Pentanedione | Inhalation- | Rat | LC50 5.1 mg/l |
| | Vapor (4 | | |
| 2.17 | hours) | _ | |
| 2,4-Pentanedione | Ingestion | Rat | LD50 570 mg/kg |
| Polymeric Benzotriazole | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polymeric Benzotriazole | Inhalation- | Rat | LC50 > 5.8 mg/l |
| | Dust/Mist | | |
| | (4 hours) | . | X 7 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Polymeric Benzotriazole | Ingestion | Rat | LD50 > 5,000 mg/kg |
| UV Absorber | Dermal | Rat | LD50 > 2,000 mg/kg |
| UV Absorber | Inhalation- | Rat | LC50 > 5.8 mg/l |
| | Dust/Mist | | |
| YWY 41 | (4 hours) | . | X 77.50 |
| UV Absorber | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | Ingestion | Rat | LD50 3,125 mg/kg |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | Ingestion | Rat | LD50 3,125 mg/day |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| | | |
| Titanium Dioxide | Rabbit | No significant irritation |
| 1,4-Butanediol | Rabbit | No significant irritation |
| Inorganic Filler | Rabbit | No significant irritation |
| Hydrophobic Fumed Silica | Rabbit | No significant irritation |
| Polymeric Benzotriazole | Rabbit | No significant irritation |
| UV Absorber | Rabbit | No significant irritation |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | Rabbit | No significant irritation |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| crious Eye Dumuge/111tution | | | | |
|---|---------|---------------------------|--|--|
| Name | Species | Value | | |
| | | | | |
| Titanium Dioxide | Rabbit | No significant irritation | | |
| 1,4-Butanediol | Rabbit | Mild irritant | | |
| Inorganic Filler | Rabbit | Mild irritant | | |
| Hydrophobic Fumed Silica | Rabbit | No significant irritation | | |
| Polymeric Benzotriazole | Rabbit | No significant irritation | | |
| UV Absorber | Rabbit | No significant irritation | | |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | Rabbit | No significant irritation | | |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | Rabbit | No significant irritation | | |

Skin Sensitization

| Name | Species | Value |
|------|---------|-------|
| · | | |

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| Titanium Dioxide | Human | Not classified |
|---|--------|----------------|
| | and | |
| | animal | |
| 1,4-Butanediol | Human | Not classified |
| | and | |
| | animal | |
| Hydrophobic Fumed Silica | Human | Not classified |
| | and | |
| | animal | |
| Polymeric Benzotriazole | Guinea | Sensitizing |
| | pig | |
| UV Absorber | Guinea | Sensitizing |
| | pig | |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | Guinea | Sensitizing |
| | pig | |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|---------------|
| | | |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| 1,4-Butanediol | In Vitro | Not mutagenic |
| Hydrophobic Fumed Silica | In Vitro | Not mutagenic |
| Polymeric Benzotriazole | In Vitro | Not mutagenic |
| Polymeric Benzotriazole | In vivo | Not mutagenic |
| UV Absorber | In Vitro | Not mutagenic |
| UV Absorber | In vivo | Not mutagenic |
| Bis(1,2,2,6,6-Pentamethyl-4-Piperidinyl) Sebacate | In Vitro | Not mutagenic |
| Methyl 1,2,2,6,6-Pentamethyl-4-Piperidinyl Sebacate | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------------|------------|----------|--|
| Titanium Dioxide | Ingestion | Multiple | Not carcinogenic |
| | | animal | Č |
| | | species | |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Hydrophobic Fumed Silica | Not | Mouse | Some positive data exist, but the data are not |
| | Specified | | sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|--------------------------|-----------|--|---------|--------------------------|-----------------------------|
| 1,4-Butanediol | Ingestion | Not classified for development | Mouse | NOAEL 600 mg/kg/day | during organogenesi s |
| Hydrophobic Fumed Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Hydrophobic Fumed Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Hydrophobic Fumed Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesi s |
| Polymeric Benzotriazole | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Polymeric Benzotriazole | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| Polymeric Benzotriazole | Ingestion | Not classified for development | Rat | NOAEL 2 | premating |

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| | | | | mg/kg/day | into lactation |
|-------------|-----------|--|-----|------------------------|--------------------------|
| UV Absorber | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| UV Absorber | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| UV Absorber | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | premating into lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| pecific furget organ formerly single exposure | | | | | | | |
|---|------------|-------------------------|-----------------------------------|-----------|-------------|---------------|--|
| Name Route Target Organ | | Target Organ(s) | Value | Species | Test Result | Exposure | |
| | | | | | | Duration | |
| 1,4-Butanediol | Inhalation | central nervous | May cause drowsiness or | Rat | LOAEL 4.6 | 4 hours | |
| | | system depression | dizziness | | mg/l | | |
| 1,4-Butanediol | Inhalation | respiratory irritation | Some positive data exist, but the | Multiple | NOAEL Not | not available | |
| | | | data are not sufficient for | animal | available | | |
| | | | classification | species | | | |
| 1,4-Butanediol Ingestion central nervous | | May cause drowsiness or | Human | NOAEL Not | | | |
| | | system depression | dizziness | | available | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------|------------|--|--|---------|------------------------|-----------------------|
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 1,4-Butanediol | Inhalation | heart blood liver immune system | Not classified | Rat | NOAEL 5.2 mg/l | 2 weeks |
| 1,4-Butanediol | Inhalation | nervous system kidney and/or bladder | Not classified | Rat | NOAEL 0.5 mg/l | 4 months |
| 1,4-Butanediol | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| Hydrophobic Fumed Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Polymeric Benzotriazole | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL not available | 28 days |
| Polymeric Benzotriazole | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | liver | Not classified | Rat | NOAEL 10 mg/kg/day | 28 days |
| Polymeric Benzotriazole | Ingestion | eyes | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| UV Absorber | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL not available | 28 days |
| UV Absorber | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| UV Absorber | Ingestion | liver | Not classified | Rat | NOAEL 10 mg/kg/day | 28 days |
| UV Absorber | Ingestion | eyes | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product—that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Respiratory or Skin Sensitization

This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)C.A.S. NoRegulationStatus2,4-Pentanedione123-54-6Toxic Substances Control Act (TSCA) 5ProposedSNUR or Consent Order Chemicals

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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SECTION 1: Identification

1.1. Product identifier

3MTM Wind Blade Protection Coating W4600 Part A

Product Identification Numbers

LH-A100-2447-8, 80-6116-2662-5, 80-6116-2718-5 7100170718, 7100170720

1.2. Recommended use and restrictions on use

Recommended use

Coating

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Acute Toxicity (inhalation): Category 4. Respiratory Sensitizer: Category 1A. Skin Sensitizer: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation.

Precautionary Statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves.

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

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

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

Supplemental Information:

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|----------------------------|------------|----------------------|
| Hexamethylene Diisocyanate | 822-06-0 | < 0.5 Trade Secret * |
| Aliphatic Polyisocyanate | 9048-90-2 | > 95 Trade Secret * |

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from strong bases. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|----------------------------|------------|--------|---------------|----------------------------|
| Hexamethylene Diisocyanate | 822-06-0 | ACGIH | TWA:0.005 ppm | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateLiquidColorColorless

OdorPungent OdorOdor thresholdNo Data Available

pH Not ApplicableMelting point Not Applicable

Boiling Point > 356 °F [@ 760 mmHg]

Flash Point >=482 °F [Test Method: Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not Applicable

Flammable Limits(LEL) 0.9 % Flammable Limits(UEL) 9.5 %

 Vapor Pressure
 15.8 mmHg [@ 20 °C]

 Vapor Density
 <=1 [Ref Std: AIR=1]</td>

 Possity
 1.00 g/ml

Density 1.09 g/ml

Specific Gravity 1.09 [Ref Std:WATER=1]

Solubility in Water Nil [Details: Reacts slowly with water to liberate CO2 gas]

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data Available

Autoignition temperature 415 °C

Decomposition temperatureNo Data AvailableViscosityApproximately

Volatile Organic Compounds <=20 g/l [Test Method:tested per EPA method 24] [Details:as

used, when reacted with part B]

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization may occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Water Amines Strong bases

Alcohols

Alkali and alkaline earth metals

10.6. Hazardous decomposition products

| <u>Substance</u> | Condition |
|------------------|------------------|
|------------------|------------------|

Carbon monoxide Oxidation, heat or reaction Carbon dioxide Oxidation, heat or reaction Hydrogen Cyanide Oxidation, heat or reaction Oxides of Nitrogen Oxidation, heat or reaction

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching,

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

No known health effects.

Additional Information:

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|----------------------------|---------------------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE2,000 - 5,000 mg/kg |
| Overall product | Inhalation- Dust/Mist(4 hr) | | No data available; calculated ATE1 - 5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Aliphatic Polyisocyanate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Aliphatic Polyisocyanate | Inhalation- Dust/Mist (4 hours) | Rat | LC50 = 0.39 mg/l |
| Aliphatic Polyisocyanate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Hexamethylene Diisocyanate | Dermal | Rat | LD50 > 7,000 mg/kg |

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| Hexamethylene Diisocyanate | Inhalation- Dust/Mist | Rat | LC50 0.124 mg/l |
|----------------------------|---------------------------------------|-----|-----------------|
| Hexamethylene Diisocyanate | (4 hours) Inhalation- Vapor (4 hours) | Rat | LC50 0.124 mg/l |
| Hexamethylene Diisocyanate | Ingestion | Rat | LD50 710 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|----------------------------|---------|-----------|
| Hexamethylene Diisocyanate | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|----------------------------|---------|-----------|
| Hexamethylene Diisocyanate | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|----------------------------|----------|-------------|
| Aliphatic Polyisocyanate | Mouse | Sensitizing |
| Hexamethylene Diisocyanate | Multiple | Sensitizing |
| | animal | |
| | species | |

Respiratory Sensitization

| Name | Species | Value |
|----------------------------|--------------|-------------|
| Hexamethylene Diisocyanate | Human and | Sensitizing |
| | animal | |

Germ Cell Mutagenicity

| Germ Gen Mutagemeny | | |
|----------------------------|----------|---------------|
| Name | Route | Value |
| Hexamethylene Diisocyanate | In Vitro | Not mutagenic |
| Hexamethylene Diisocyanate | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|----------------------------|------------|---------|------------------|
| Hexamethylene Diisocyanate | Inhalation | Rat | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|--|---------|---------------------|----------------------|
| Hexamethylene Diisocyanate | Inhalation | Not classified for female reproduction | Rat | NOAEL 0.002 mg/l | 7 weeks |
| Hexamethylene Diisocyanate | Inhalation | Not classified for development | Rat | NOAEL 0.002 mg/l | 7 weeks |
| Hexamethylene Diisocyanate | Inhalation | Not classified for male reproduction | Rat | NOAEL 0.014 mg/l | 4 weeks |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name Route Target Organ(s) Value Species Test Result Expo | sure tion |
|---|--------------|
|---|--------------|

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| Aliphatic Polyisocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | Not | NOAEL NA | |
|--------------------------|------------|------------------------|----------------------------------|-----------|-----------|--------------|
| | | | | available | | |
| Hexamethylene | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not | |
| Diisocyanate | | | | and | available | |
| | | | | animal | | |
| Hexamethylene | Inhalation | blood | Not classified | Human | NOAEL Not | occupational |
| Diisocyanate | | | | | available | exposure |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|---------------|------------|-----------------------|----------------|---------|-------------|----------|
| | | | | | | Duration |
| Hexamethylene | Inhalation | liver kidney and/or | Not classified | Rat | NOAEL | 3 weeks |
| Diisocyanate | | bladder | | | 0.002 mg/l | |
| Hexamethylene | Inhalation | endocrine system | Not classified | Rat | NOAEL | 4 weeks |
| Diisocyanate | | - | | | 0.0014 mg/l | |
| Hexamethylene | Inhalation | blood | Not classified | Rat | NOAEL | 2 years |
| Diisocyanate | | | | | 0.0012 mg/l | |
| Hexamethylene | Inhalation | nervous system | Not classified | Rat | NOAEL | 7 weeks |
| Diisocyanate | | | | | 0.002 mg/l | |
| Hexamethylene | Inhalation | heart | Not classified | Rat | NOAEL | 90 days |
| Diisocyanate | | | | | 0.001 mg/l | |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Acute toxicity

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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