

Safety Data Sheet

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1.00 **Document Group:** 36-3500-0 **Version Number: Issue Date:** 04/10/2025 **Supercedes Date:** Initial Issue

IDENTIFICATION

1.1. Product identifier

3MTM Scotch-WeldTM Multi-Material Composite Urethane Adhesive DP6310NS

Product Identification Numbers

62-3590-1448-7

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

ADDRESS: 3M Philippines, Inc., 18th Floor, Bonifacio Stopover Corporate Center, 31st Street corner, 2nd Avenue,

Bonifacio Global City, Taguig City, 1635 Philippines

+632 827 11680 **Telephone:** E Mail mcvillalva@mmm.com Website: www.3m.com/ph 1.4. Emergency telephone number

Company Emergency Hotline:+632 827 11680

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The

document numbers of the SDSs for components of this product are:

36-3467-2, 36-3464-9

Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned. Hazard Class/Division: None assigned. Subsidiary Risk: None assigned.

Packing Group: None assigned.

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS

Limited Quantity: None assigned. **Marine Pollutant:** None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number:None assigned.

Proper Shipping Name: None assigned. Technical Name: None assigned. Hazard Class/Division: None assigned. Subsidiary Risk: None assigned. Packing Group: None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

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Safety Data Sheet

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Document Group:36-3464-9Version Number:1.00Issue Date:04/10/2025Supercedes Date:Initial Issue

This Safety Data Sheet has been prepared in accordance with the DENR Administrative Order No. 2015-09 Rules and Procedures for the Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances.

SECTION 1: Identification

1.1. Product identifier

3MTM Scotch-WeldTM Multi-Material Composite Urethane Adhesive DP6310NS, Part A

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Two part urethane adhesives

For Industrial or Professional use only

1.3. Supplier's details

ADDRESS: 3M Philippines, Inc., 18th Floor, Bonifacio Stopover Corporate Center, 31st Street corner, 2nd Avenue,

Bonifacio Global City, Taguig City, 1635 Philippines

Telephone: +632 827 11680 E Mail: mcvillalva@mmm.com Website: www.3m.com/ph

1.4. Emergency telephone number

+632 827 11680

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (repeated exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms





Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure: respiratory system.

Precautionary statements

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280E Wear protective gloves.
P284 Wear respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

2.3. Other hazards

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 |
|--|--------------|---------|
| p,p'-Methylenebis(phenyl isocyanate) | 101-68-8 | 30 - 50 |
| Urethane Prepolymer | Trade Secret | 20 - 40 |
| Fillers | Trade Secret | 10 - 30 |
| 4,4'-Diisocyanatodiphenylmethane polymer | 25686-28-6 | 1 - 20 |
| Talc | 14807-96-6 | 1 - 10 |
| Treated Silica | 68611-44-9 | 1 - 3 |

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.

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

DO NOT USE WATER In case of fire: Use a fire fighting agent suitable for water-reactives such as dry chemical to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

| Substance | <u>Condition</u> |
|-------------------------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Chloride | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

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. Do not breathe 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 heat. 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 |
|--------------------------------------|-----------------|---------------------|---|--------------------------------|
| p,p'-Methylenebis(phenyl isocyanate) | 101-68-8 | ACGIH | TWA:0.005 ppm | |
| p,p'-Methylenebis(phenyl isocyanate) | 101-68-8 | Philippines OELs | CEIL:0.2 mg/m3(0.02 ppm) | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m3 | A4: Not class. as human carcin |
| Talc | 14807-96-6 | Philippines OELs | TWA (calculated) mppcf(8 hours):2.4 millions of particles/cu. ft. | |
| SILICA, AMORPHOUS | 68611-44-9 | Philippines OELs | TWA(8 hours):0.8 mg/m3 | |
| Fillers | Trade Secret | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcin |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Philippines OELs: Philippines. Threshold Limit Values for Airborne Contaminants

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:

Safety Glasses with side shields

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

| Physical state | Liquid | |
|---|---|--|
| Specific Physical Form: | Viscous | |
| | | |
| Color | White | |
| Odor | Slight Isocyanate | |
| Odor threshold | No Data Available | |
| рН | Not Applicable | |
| Melting point/Freezing point | No Data Available | |
| Boiling point/Initial boiling point/Boiling range | No Data Available | |
| Flash Point | >=195 °C [Test Method: Tagliabue Closed Cup] | |
| Evaporation rate | <=1 [Details:Gels with exposure to humidity.] | |
| Flammability | Not Applicable | |
| | | |
| Flammable Limits(LEL) | Not Applicable | |
| Flammable Limits(UEL) | Not Applicable | |
| Vapor Pressure | <=1.3 Pa [@ 25 °C] | |
| Relative Vapor Density | >=1 [<i>Ref Std</i> :AIR=1] | |
| Density | 1.288 g/ml | |
| Relative Density | 1.288 [<i>Ref Std</i> :WATER=1] | |
| Water solubility | Negligible | |
| Solubility- non-water | No Data Available | |

| Partition coefficient: n-octanol/ water | No Data Available | |
|---|--|--|
| Autoignition temperature | Not Applicable | |
| Decomposition temperature | No Data Available | |
| Kinematic Viscosity | 1,450 mm2/sec | |
| Volatile Organic Compounds | No Data Available | |
| Percent volatile | No Data Available | |
| VOC Less H2O & Exempt Solvents | 0 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] [<i>Details</i> :as supplied] | |
| VOC Less H2O & Exempt Solvents | <=1 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part B] | |
| VOC Less H2O & Exempt Solvents | <=0.1 % [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part B] | |
| Molecular weight | No Data Available | |

| Particle Characteristics | Not Applicable |
|--------------------------|----------------|
| | FF |

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

Heat

10.5. Incompatible materials

Water

Strong acids

Strong bases

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

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.

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

May cause additional health effects (see below).

Skin Contact:

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

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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 | Inhalation- Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| p,p'-Methylenebis(phenyl isocyanate) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| p,p'-Methylenebis(phenyl isocyanate) | Inhalation- Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| p,p'-Methylenebis(phenyl isocyanate) | Ingestion | Rat | LD50 31,600 mg/kg |
| Urethane Prepolymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Urethane Prepolymer | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 4,4'-Diisocyanatodiphenylmethane polymer | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation- Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| 4,4'-Diisocyanatodiphenylmethane polymer | Ingestion | Rat | LD50 31,600 mg/kg |
| Fillers | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Fillers | Inhalation- Dust/Mist | Rat | LC50 > 4.57 mg/l |

3MTM Scotch-WeldTM Multi-Material Composite Urethane Adhesive DP6310NS, Part A

| | (4 hours) | | |
|----------------|---------------------------------------|--------|------------------------------------|
| Fillers | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Treated Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Treated Silica | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Treated Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|-------------|---------------------------|
| | | |
| p,p'-Methylenebis(phenyl isocyanate) | official | Irritant |
| | classificat | |
| | ion | |
| 4,4'-Diisocyanatodiphenylmethane polymer | official | Irritant |
| | classificat | |
| | ion | |
| Fillers | Rabbit | No significant irritation |
| Talc | Rabbit | No significant irritation |
| Treated Silica | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|--------------------------------|---------------------------|
| p,p'-Methylenebis(phenyl isocyanate) | official classificat ion | Severe irritant |
| 4,4'-Diisocyanatodiphenylmethane polymer | official classificat ion | Severe irritant |
| Fillers | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Treated Silica | Rabbit | No significant irritation |

Sensitization:

Skin Sensitization

| Name | Species | Value |
|--|---------|----------------|
| | | |
| p,p'-Methylenebis(phenyl isocyanate) | Mouse | Sensitizing |
| 4,4'-Diisocyanatodiphenylmethane polymer | Mouse | Sensitizing |
| Treated Silica | Human | Not classified |
| | and | |
| | animal | |

Respiratory Sensitization

| tespii woo j sensinzwisii | | |
|--|---------|----------------|
| Name | Species | Value |
| p,p'-Methylenebis(phenyl isocyanate) | Human | Sensitizing |
| 4,4'-Diisocyanatodiphenylmethane polymer | Human | Sensitizing |
| Talc | Human | Not classified |

Germ Cell Mutagenicity

| Germ Cen wintagementy | | | | | | | |
|--|----------|--|--|--|--|--|--|
| Name | Route | Value | | | | | |
| | | | | | | | |
| | | | | | | | |
| p,p'-Methylenebis(phenyl isocyanate) | In Vitro | Some positive data exist, but the data are not | | | | | |
| | | sufficient for classification | | | | | |
| 4,4'-Diisocyanatodiphenylmethane polymer | In Vitro | Some positive data exist, but the data are not | | | | | |
| | | sufficient for classification | | | | | |

3MTM Scotch-WeldTM Multi-Material Composite Urethane Adhesive DP6310NS, Part A

| Talc | In Vitro | Not mutagenic |
|----------------|----------|---------------|
| Talc | In vivo | Not mutagenic |
| Treated Silica | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|---------|--|
| p,p'-Methylenebis(phenyl isocyanate) | Inhalation | Rat | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation | Rat | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Talc | Inhalation | Rat | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Treated 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 |
|--|------------|--|---------|-----------------------------|-------------------------|
| p,p'-Methylenebis(phenyl isocyanate) | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| Talc | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |
| Treated Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Treated Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Treated Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|------------------------|----------------------------------|--------------------------------|------------------------|----------------------|
| p,p'-Methylenebis(phenyl isocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | official classifica tion | NOAEL Not available | |
| 4,4'- Diisocyanatodiphenylmeth ane polymer | Inhalation | respiratory irritation | May cause respiratory irritation | official classifica tion | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|--|--|---------|---------------------|-----------------------|
| p,p'-Methylenebis(phenyl isocyanate) | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| 4,4'- Diisocyanatodiphenylmeth ane polymer | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Treated Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

| Material | Cas # | Organism | Туре | Exposure | Test Endpoint | Test Result |
|--|--------------|---------------------|---|----------|---------------|--------------------------|
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Activated sludge | Analogous Compound | 3 hours | EC50 | >100 mg/l |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Green algae | Analogous Compound | 72 hours | EC50 | >1,640 mg/l |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Water flea | Analogous Compound | 24 hours | EC50 | >1,000 mg/l |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Zebra Fish | Analogous Compound | 96 hours | LC50 | >1,000 mg/l |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Green algae | Analogous Compound | 72 hours | NOEC | 1,640 mg/l |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Water flea | Analogous Compound | 21 days | NOEC | 10 mg/l |
| Urethane Prepolymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Fillers | Trade Secret | African clawed frog | Analogous Compound | 96 hours | LC50 | 1,800 mg/l |
| Fillers | Trade Secret | Fathead Minnow | Analogous Compound | 96 hours | LC50 | >680 mg/l |
| Fillers | Trade Secret | Green algae | Analogous Compound | 72 hours | EC50 | 130 mg/l |
| Fillers | Trade Secret | Sediment organism | Analogous Compound | 22 days | EC50 | 364.9 mg/l |
| Fillers | Trade Secret | Water flea | Analogous Compound | 48 hours | EC50 | >100 mg/l |
| Fillers | Trade Secret | Fathead Minnow | Analogous Compound | 30 days | NOEC | 86.7 mg/l |
| Fillers | Trade Secret | Green algae | Analogous Compound | 72 hours | NOEC | 18 mg/l |
| Fillers | Trade Secret | Water flea | Analogous Compound | 21 days | NOEC | 32 mg/l |
| Fillers | Trade Secret | Bacteria | Experimental | 16 hours | EC50 | 950 mg/l |
| Fillers | Trade Secret | Radish | Experimental | 23 days | EC50 | 4,000 mg/kg (Dry Weight) |

| 4,4'- | 25686-28-6 | Green algae | Estimated | 72 hours | EC50 | >1,640 mg/l |
|-------------------|------------|-------------|---------------------|----------|------|-------------|
| Diisocyanatodiphe | | | | | | |
| nylmethane | | | | | | |
| polymer | | | | | | |
| 4,4'- | 25686-28-6 | Water flea | Estimated | 24 hours | EC50 | >1,000 mg/l |
| Diisocyanatodiphe | | | | | | |
| nylmethane | | | | | | |
| polymer | | | | | | |
| 4,4'- | 25686-28-6 | Zebra Fish | Estimated | 96 hours | LC50 | >1,000 mg/l |
| Diisocyanatodiphe | | | | | | |
| nylmethane | | | | | | |
| polymer | | | | | | |
| 4,4'- | 25686-28-6 | Green algae | Estimated | 72 hours | NOEL | 1,640 mg/l |
| Diisocyanatodiphe | | | | | | |
| nylmethane | | | | | | |
| polymer | | | | | | |
| 4,4'- | 25686-28-6 | Water flea | Estimated | 21 days | NOEC | 10 mg/l |
| Diisocyanatodiphe | | | | | | |
| nylmethane | | | | | | |
| polymer | | | | | | |
| Talc | 14807-96-6 | N/A | Data not available | N/A | N/A | N/A |
| | | | or insufficient for | | | |
| | | | classification | | | |
| Treated Silica | 68611-44-9 | N/A | Data not available | N/A | N/A | N/A |
| | | | or insufficient for | | | |
| | | | classification | | | |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|--------------|-------------------------------------|----------|----------------------|-----------------|----------|
| | | | | | | |
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Urethane Prepolymer | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Fillers | Trade Secret | Analogous Compound Hydrolysis | | Hydrolytic half-life | 60 days (t 1/2) | |
| 4,4'- Diisocyanatodiphe nylmethane polymer | 25686-28-6 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Talc | 14807-96-6 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Treated Silica | 68611-44-9 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--|--------------|---|----------|---------------------------|-------------|--------------------------|
| p,p'- Methylenebis(phen yl isocyanate) | 101-68-8 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation Factor | 200 | OECD305-Bioconcentration |
| Urethane Prepolymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Fillers | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 4,4'- Diisocyanatodiphe nylmethane | 25686-28-6 | Estimated BCF - Fish | 28 days | Bioaccumulation Factor | 200 | OECD305-Bioconcentration |

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

| polymer | | | | | | |
|----------------|------------|---------------------|-----|-----|-----|-----|
| Talc | 14807-96-6 | Data not available | N/A | N/A | N/A | N/A |
| | | or insufficient for | | | | |
| | | classification | | | | |
| Treated Silica | 68611-44-9 | Data not available | N/A | N/A | N/A | N/A |
| | | or insufficient for | | | | |
| | | classification | | | | |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned. **Packing Group:** None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more 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.

SECTION 16: Other information

Revision information:

No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Philippines SDSs are available at www.3m.com/ph



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the DENR Administrative Order No. 2015-09 Rules and Procedures for the Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances.

SECTION 1: Identification

1.1. Product identifier

3M[™] Scotch-Weld[™] Multi-Material Composite Urethane Adhesive DP6310NS, Part B

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Two part urethane adhesives

For Industrial or Professional use only

1.3. Supplier's details

ADDRESS: 3M Philippines, Inc., 18th Floor, Bonifacio Stopover Corporate Center, 31st Street corner, 2nd Avenue,

Bonifacio Global City, Taguig City, 1635 Philippines

Telephone: +632 827 11680 E Mail: mcvillalva@mmm.com Website: www.3m.com/ph

1.4. Emergency telephone number

+632 827 11680

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as a hazardous substance as implemented by the Philippines Department of Labor and Employment "Guidelines for the Implementation of the Globally Harmonized System (GHS) in Chemical Safety Program in the Workplace."

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable

Pictograms

Not applicable

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---------------------|--------------|---------|
| Polyol | Trade Secret | 30 - 50 |
| Polyether Polyol | Trade Secret | 10 - 30 |
| Talc | 14807-96-6 | 10 - 30 |
| Urethane Prepolymer | Trade Secret | 1 - 10 |
| Thickening Agent | Trade Secret | 0.1 - 5 |
| Treated Silica | 68611-44-9 | < 1 |
| Piperazine | 110-85-0 | < 1 |
| Quartz Silica | 14808-60-7 | < 1 |
| BHT | 128-37-0 | < 0.5 |

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:

Wash with soap and water. If you are concerned, get medical advice.

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 are concerned, get medical advice.

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

None inherent in this product.

Hazardous Decomposition or By-Products

| Substance | Condition |
|--------------------|--------------------------|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Chloride | During Combustion |
| Oxides of Nitrogen | During Combustion |
| | |

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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

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

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. Do not handle until all safety precautions have been read and understood. 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

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 |
|------------|------------|--------|------------------------------|----------------------------|
| Piperazine | 110-85-0 | ACGIH | TWA(as piperazine, inhalable | A4: Not class. as human |
| | | | fraction & amp; vapor):0.03 | carcin, |
| | | | ppm | Dermal/Respiratory |

| | | | | Sensitizer |
|-------------------|------------|---------------------|--|--------------------------------|
| ВНТ | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | A4: Not class. as human carcin |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m3 | A4: Not class. as human carcin |
| Talc | 14807-96-6 | Philippines OELs | TWA (calculated) mppcf(8 hours):2.4 millions of particles/cu. ft. | |
| Quartz Silica | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m3 | A2: Suspected human carcin. |
| Quartz Silica | 14808-60-7 | Philippines OELs | TWA(as total dust)(8 hours):0.3 mg/m3;TWA(respirable)(8 hours):0.1 mg/m3;TWA (calculated) mppcf(respirable)(8 hours):2.4 millions of particles/cu. ft. | |
| SILICA, AMORPHOUS | 68611-44-9 | Philippines OELs | TWA(8 hours):0.8 mg/m3 | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

Philippines OELs: Philippines. Threshold Limit Values for Airborne Contaminants

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:

Safety Glasses with side shields

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.

Gloves made from the following material(s) are recommended: Neoprene

Nitrile Rubber

Natural Rubber

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

| DI 1 1 1 1 | | | |
|---|--|--|--|
| Physical state | Liquid | | |
| Specific Physical Form: | Paste | | |
| | | | |
| Color | Dark Green | | |
| Odor | Slight Ammoniacal | | |
| Odor threshold | No Data Available | | |
| рН | Not Applicable | | |
| Melting point/Freezing point | Not Applicable | | |
| Boiling point/Initial boiling point/Boiling range | No Data Available | | |
| Flash Point | >=171.1 °C [Test Method:Closed Cup] | | |
| Evaporation rate | Not Applicable | | |
| Flammability | Not Applicable | | |
| | | | |
| Flammable Limits(LEL) | Not Applicable | | |
| Flammable Limits(UEL) | Not Applicable | | |
| Vapor Pressure | <= 0 Pa [@ 20 °C] | | |
| Relative Vapor Density | Not Applicable | | |
| Density | 1.2 g/ml | | |
| Relative Density | 1.2 [Ref Std:WATER=1] | | |
| Water solubility | Negligible | | |
| Solubility- non-water | No Data Available | | |
| Partition coefficient: n-octanol/ water | No Data Available | | |
| Autoignition temperature | No Data Available | | |
| Decomposition temperature | No Data Available | | |
| Kinematic Viscosity | 1,910 mm2/sec | | |
| Volatile Organic Compounds | No Data Available | | |
| Percent volatile | No Data Available | | |
| VOC Less H2O & Exempt Solvents | < 1 g/l [Test Method:calculated SCAQMD rule 443.1] | | |
| | [Details: when used as intended with Part A] | | |
| VOC Less H2O & Exempt Solvents | <=0.1 % [Test Method:calculated SCAQMD rule 443.1] | | |
| | [Details: when used as intended with Part A] | | |
| VOC Less H2O & Exempt Solvents | < 2 g/l [Test Method:calculated SCAQMD rule 443.1] | | |
| | [Details:as supplied] | | |
| Molecular weight | No Data Available | | |

| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

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 oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

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:

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

Eve Contact:

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

Ingestion:

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Polyol | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polyol | Inhalation- | Rat | LC50 > 50 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part B

| Polyol | Ingestion | Rat | LD50 4,600 mg/kg |
|------------------|---------------------------------------|--------------------------|------------------------------------|
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Polyether Polyol | Dermal | similar compoun ds | LD50 > 2,000 mg/kg |
| Polyether Polyol | Inhalation- Dust/Mist (4 hours) | similar compoun ds | LC50 > 3.2 mg/l |
| Polyether Polyol | Ingestion | similar compoun ds | LD50 > 5,000 mg/kg |
| Treated Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Treated Silica | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Treated Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Piperazine | Ingestion | Rat | LD50 2,300 mg/kg |
| BHT | Dermal | Rat | LD50 > 2,000 mg/kg |
| BHT | Ingestion | Rat | LD50 > 2,930 mg/kg |
| Quartz Silica | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz Silica | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------------------|-----------|---------------------------|
| | | |
| Polyol | Rabbit | No significant irritation |
| Talc | Rabbit | No significant irritation |
| Polyether Polyol | similar | Minimal irritation |
| | compoun | |
| | ds | |
| Treated Silica | Rabbit | No significant irritation |
| Piperazine | Rabbit | Corrosive |
| BHT | Human | Minimal irritation |
| | and | |
| | animal | |
| Quartz Silica | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |

Serious Eye Damage/Irritation

| Name | Species | Value |
|------------------|---------|---------------------------|
| Polyol | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Polyether Polyol | similar | Mild irritant |
| | compoun | |
| | ds | |
| Treated Silica | Rabbit | No significant irritation |
| Piperazine | similar | Corrosive |
| | health | |
| | hazards | |
| BHT | Rabbit | Mild irritant |

Sensitization:

Skin Sensitization

| Skiii Schsitization | | | | |
|---------------------|---------|----------------|--|--|
| Name | Species | Value | | |
| Polyether Polyol | similar | Not classified | | |
| | compoun | | | |

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| | ds | |
|----------------|--------|----------------|
| Treated Silica | Human | Not classified |
| | and | |
| | animal | |
| Piperazine | Human | Sensitizing |
| | and | |
| | animal | |
| BHT | Human | Not classified |

Respiratory Sensitization

| Name | Species | Value |
|------------|---------|----------------|
| Talc | Human | Not classified |
| Piperazine | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|------------------|----------|--|
| | | |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| Polyether Polyol | In Vitro | Not mutagenic |
| Treated Silica | In Vitro | Not mutagenic |
| Piperazine | In vivo | Not mutagenic |
| Piperazine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| BHT | In Vitro | Not mutagenic |
| BHT | In vivo | Not mutagenic |
| Quartz Silica | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|----------------|------------------|-------------------------------|--|
| Talc | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Treated Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| ВНТ | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | Inhalation | Human and animal | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route Value | | Species | Test Result | Exposure Duration | |
|----------------|-------------|--|---------|-----------------------------|-------------------------|--|
| Talc | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis | |
| Treated Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation | |
| Treated Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation | |
| Treated Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis | |
| Piperazine | Ingestion | Toxic to female reproduction | Rat | NOAEL 125 mg/kg/day | 2 generation | |
| Piperazine | Ingestion | Toxic to male reproduction | Rat | NOAEL 125 mg/kg/day | 2 generation | |
| Piperazine | Ingestion | Toxic to development | Rabbit | NOAEL 94 | during | |

| | | | | mg/kg/day | organogenesis |
|-----|-----------|--|-----|-----------|---------------|
| BHT | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 | 2 generation |
| | | | | mg/kg/day | |
| BHT | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 | 2 generation |
| | _ | _ | | mg/kg/day | _ |
| BHT | Ingestion | Not classified for development | Rat | NOAEL 100 | 2 generation |
| | _ | • | | mg/kg/day | - |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------|------------|------------------------|--|------------------------------|---------------------|----------------------|
| Piperazine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Piperazine | Ingestion | nervous system | Causes damage to organs | Human and animal | NOAEL not available | therapeutic use |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------|------------|--|--|---------|-----------------------------|-----------------------|
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Treated Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Piperazine | Ingestion | hematopoietic system eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,250 mg/kg/day | 90 days |
| ВНТ | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| ВНТ | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| ВНТ | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| ВНТ | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| ВНТ | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |
| Quartz Silica | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|------------------------|--------------|------------------|---|------------|--------------------------------|--------------|
| Polyol | Trade Secret | Golden Orfe | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Polyol | Trade Secret | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Polyol | Trade Secret | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Polyol | Trade Secret | Green algae | Experimental | 72 hours | NOEC | >100 mg/l |
| Polyether Polyol | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Talc | 14807-96-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Urethane Prepolymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Thickening Agent | Trade Secret | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| Thickening Agent | Trade Secret | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| Thickening Agent | Trade Secret | Zebra Fish | Estimated | 96 hours | LC50 | >100 mg/l |
| Piperazine | 110-85-0 | Activated sludge | Experimental | 30 minutes | NOEC | 540 mg/l |
| Piperazine | 110-85-0 | Bacteria | Experimental | 18 hours | NOEC | >1,000 mg/l |
| Piperazine | 110-85-0 | Green algae | Experimental | 72 hours | EC50 | 130 mg/l |
| Piperazine | 110-85-0 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| Piperazine | 110-85-0 | Water flea | Experimental | 48 hours | EC50 | 21 mg/l |
| Piperazine | 110-85-0 | Green algae | Experimental | 72 hours | NOEC | 34 mg/l |
| Piperazine | 110-85-0 | Water flea | Experimental | 21 days | NOEC | 12.5 mg/l |
| Quartz Silica | 14808-60-7 | Green algae | Estimated | 72 hours | EC50 | 440 mg/l |
| Quartz Silica | 14808-60-7 | Water flea | Estimated | 48 hours | EC50 | 7,600 mg/l |
| Quartz Silica | 14808-60-7 | Zebra Fish | Estimated | 96 hours | LC50 | 5,000 mg/l |
| Quartz Silica | 14808-60-7 | Green algae | Estimated | 72 hours | NOEC | 60 mg/l |
| Treated Silica | 68611-44-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| BHT | 128-37-0 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| BHT | 128-37-0 | Green algae | Experimental | 72 hours | EC50 | >0.4 mg/l |
| BHT | 128-37-0 | Water flea | Experimental | 48 hours | EC50 | 0.48 mg/l |
| ВНТ | 128-37-0 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| BHT | 128-37-0 | Green algae | Experimental | 72 hours | EC10 | 0.4 mg/l |
| BHT | 128-37-0 | Medaka | Experimental | 42 days | NOEC | 0.053 mg/l |
| BHT | 128-37-0 | Water flea | Experimental | 21 days | NOEC | 0.023 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|------------------|--------------|--------------------------------|----------|-----------------------------|---|----------------------------------|
| | | | | | | |
| Polyol | Trade Secret | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 38 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Polyether Polyol | Trade Secret | Modeled Biodegradation | 28 days | Biological Oxygen Demand | 20 %BOD/ThOD | Catalogic™ |
| Talc | 14807-96-6 | Data not availbl- | N/A | N/A | N/A | N/A |

| | | insufficient | | | | |
|------------------------|--------------|-----------------------------------|---------|-----------------------------|-----|-----------------------------------|
| Urethane Prepolymer | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Thickening Agent | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Piperazine | 110-85-0 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | | OECD 301F - Manometric Respiro |
| Quartz Silica | 14808-60-7 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Treated Silica | 68611-44-9 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| ВНТ | 128-37-0 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|------------------------|--------------|---|----------|--------------------------------------|-------------|-----------------------------------|
| Polyol | Trade Secret | Experimental BCF - Fish | 42 days | Bioaccumulation Factor | ≤7 | |
| Polyether Polyol | Trade Secret | Modeled Bioconcentration | | Bioaccumulation Factor | 2 | Catalogic™ |
| Polyether Polyol | Trade Secret | Modeled Bioconcentration | | Log of Octanol/H2O part. coeff | -2.6 | Episuite TM |
| Talc | 14807-96-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Urethane Prepolymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Thickening Agent | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Piperazine | 110-85-0 | Experimental BCF - Fish | 42 days | Bioaccumulation Factor | <=3.9 | OECD305-Bioconcentration |
| Piperazine | 110-85-0 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -1.24 | OECD 107 log Kow shke flsk mtd |
| Quartz Silica | 14808-60-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Treated Silica | 68611-44-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| ВНТ | 128-37-0 | Experimental BCF - Fish | 56 days | Bioaccumulation Factor | 1277 | OECD305-Bioconcentration |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. 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.

SECTION 16: Other information

Revision information:

No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Philippines SDSs are available at www.3m.com/ph