



Safety Data Sheet

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| | | | |
|---------------------------------------|------------|-------------------------|------------|
| Document group: | 36-3498-7 | Version number: | 3.01 |
| Revision date: | 29/08/2025 | Supersedes date: | 16/10/2023 |
| Transportation version number: | | | |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6330NS, Kit

Product Identification Numbers

62-3565-1448-9 62-3565-3630-0

7100109827 7100109828

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Product

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone: +353 1 280 3555
E Mail: ner-productstewardship@mmm.com

Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

36-3465-6, 36-3468-0

TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H332
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Carcinogenicity, Category 2 - Carc. 2; H351
Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS07 (Exclamation mark) | GHS08 (Health Hazard) |

Pictograms



Contains:

4,4'-Methylenediphenyl diisocyanate, oligomers; PIPERAZINE.

HAZARD STATEMENTS:

| | |
|------|--|
| H332 | Harmful if inhaled. |
| 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. |
| H351 | Suspected of causing cancer. |
| H335 | May cause respiratory irritation. |

| | |
|------|--|
| H373 | May cause damage to organs through prolonged or repeated exposure: respiratory system. |
|------|--|

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P260A | Do not breathe vapours. |
| P280K | Wear protective gloves and 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 advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

| | |
|------|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H412 | Harmful to aquatic life with long lasting effects. |

<=125 ml Precautionary statements**Prevention:**

| | |
|-------|--|
| P260A | Do not breathe vapours. |
| P280K | Wear protective gloves and respiratory protection. |

Response:

| | |
|-------------|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

Information required per Regulation (EU) 2020/1149 as regards diisocyanates:

As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo

Revision information:

Label: CLP Ingredients - kit components information was modified.
Section 1: Address information was modified.
Section 1: E-mail address information was modified.
Section 1: Product use information information was modified.



Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 36-3465-6 | Version number: | 5.01 |
| Revision date: | 24/01/2025 | Supersedes date: | 03/07/2024 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6330NS, Part A

Product Identification Numbers

62-3605-8530-1

7100143961

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Product

1.3. Details of the supplier of the safety data sheet

| | |
|-------------------|---|
| Address: | 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18. |
| Telephone: | +353 1 280 3555 |
| E Mail: | tox.uk@mmm.com |
| Website: | www.3M.com |

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H332
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Carcinogenicity, Category 2 - Carc. 2; H351
Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS07 (Exclamation mark) | GHS08 (Health Hazard) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--|---------|-----------|---------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | | 500-040-3 | 30 - 70 |

HAZARD STATEMENTS:

| | |
|------|--|
| H332 | Harmful if inhaled. |
| 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. |
| H351 | Suspected of causing cancer. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure: respiratory system. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P260A | Do not breathe vapours. |
| P280K | Wear protective gloves and 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 advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

| | |
|------|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |

<=125 ml Precautionary statements

Prevention:

| | |
|-------|--|
| P260A | Do not breathe vapours. |
| P280K | Wear protective gloves and respiratory protection. |

Response:

| | |
|-------------|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

Contains 2% of components with unknown hazards to the aquatic environment.

Information required per Regulation (EU) 2020/1149 as regards diisocyanates:

As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo

2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.
This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | (EC-No.) 500-040-3 | 30 - 70 | Carc. 2, H351 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 |
| Urethane Prepolymer | Trade Secret | 20 - 40 | Substance not classified as hazardous |
| Fillers | Trade Secret | 10 - 30 | Substance not classified as hazardous |
| Talc | (CAS-No.) 14807-96-6 (EC-No.) 238-877-9 | 1 - 10 | Substance with a national occupational exposure limit |
| Silane, dichlorodimethyl-, reaction products with silica | (CAS-No.) 68611-44-9 (EC-No.) 271-893-4 | 1 - 3 | Substance not classified as hazardous |

Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

| Ingredient | Identifier(s) | Specific Concentration Limits |
|--|--------------------|---|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | (EC-No.) 500-040-3 | (C ≥ 5%) Skin Irrit. 2, H315 (C ≥ 5%) Eye Irrit. 2, H319 (C ≥ 0.1%) Resp. Sens. 1, H334 (C ≥ 5%) STOT SE 3, H335 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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

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

The most important symptoms and effects based on the CLP classification include:

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). Harmful if inhaled. Irritation to

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

Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. 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. 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**

Carbon monoxide

Carbon dioxide.

Hydrogen Chloride

Condition

During combustion.

During combustion.

During combustion.

Hydrogen cyanide.
Oxides of nitrogen.
Toxic vapour, gas, particulate.

During combustion.
During combustion.
During combustion.

5.3. Advice 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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, 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 dykes 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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/vapours/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.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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 | CAS Nbr | Agency | Limit type | Additional comments |
|-------------------|----------------|---------------|---|----------------------------|
| Talc | 14807-96-6 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):0.8 mg/m ³ | |

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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/vapours/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.

Applicable Norms/Standards

Use eye protection conforming to EN 166

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:

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-----------------------|--------------------------|
| Polymer laminate | No data available | No data available |

Applicable Norms/Standards

Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | Liquid. |
| Specific Physical Form: | Viscous. |
| Colour | White |
| Odor | Slight Isocyanate |
| Odour threshold | No data available. |
| Melting point/freezing point | No data available. |
| Boiling point/boiling range | No data available. |
| Flammability | Not applicable. |
| Flammable Limits(LEL) | Not applicable. |
| Flammable Limits(UEL) | Not applicable. |
| Flash point | >=195 °C [Test Method: Tagliabue closed cup] |
| Autoignition temperature | Not applicable. |
| Decomposition temperature | No data available. |
| pH | substance/mixture is non-soluble (in water) |
| Kinematic Viscosity | 1,450 mm²/sec |
| Water solubility | Negligible |
| Solubility- non-water | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Vapour pressure | <=1.3 Pa [@ 25 °C] |
| Density | 1.288 g/ml |
| Relative density | 1.288 [Ref Std: WATER=1] |
| Relative Vapour Density | >=1 [Ref Std: AIR=1] |
| Particle Characteristics | Not applicable. |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

<=1 [Details: Gels with exposure to humidity.]

Molecular weight

No data available.

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 polymerisation 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

| <u>Substance</u> | <u>Condition</u> |
|-------------------------|-------------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 localised 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 diarrhoea.

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 coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation 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-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 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 |
| Fillers | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Fillers | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4.57 mg/l |
| 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 |
| Silane, dichlorodimethyl-, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silane, dichlorodimethyl-, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Silane, dichlorodimethyl-, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | official classification | Irritant |
| Fillers | Rabbit | No significant irritation |
| Talc | Rabbit | No significant irritation |
| Silane, dichlorodimethyl-, reaction products with silica | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | official classification | Severe irritant |
| Fillers | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Silane, dichlorodimethyl-, reaction products with silica | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|-----------|----------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Mouse | Sensitising |
| Silane, dichlorodimethyl-, reaction products with silica | Human and | Not classified |

| | | |
|--|--------|--|
| | animal | |
|--|--------|--|

Respiratory Sensitisation

| Name | Species | Value |
|--|---------|----------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Human | Sensitising |
| Talc | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| Silane, dichlorodimethyl-, reaction products with silica | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|----------------|---------|--|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 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 |
| Silane, dichlorodimethyl-, reaction products with silica | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|------------|--|---------|-----------------------|----------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 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 |
| Silane, dichlorodimethyl-, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silane, dichlorodimethyl-, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silane, dichlorodimethyl-, reaction products with 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 |
|--|------------|------------------------|----------------------------------|-------------------------|---------------------|-------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|---|---|---------|---------------------|-----------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Talc | Inhalation | pneumoconiosis | Repeated and prolonged exposure to large amounts of talc dust can cause lung injury | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m³ | 113 weeks |

| | | | | | | |
|--|------------|--------------------------------|----------------|-------|---------------------|-----------------------|
| Silane, dichlorodimethyl-, reaction products with silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
|--|------------|--------------------------------|----------------|-------|---------------------|-----------------------|

Aspiration Hazard

For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|--|--------------|---------------------|---|----------|---------------|--------------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 500-040-3 | Water flea | Analogous Compound | 24 hours | EC50 | >100 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) |
| Talc | 14807-96-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Silane, dichlorodimethyl-, reaction products with silica | 68611-44-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|-----------------------------------|----------|-----------------------------|------------------|---------------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 500-040-3 | Analogous Compound Biodegradation | 28 days | BOD | 0 %BOD/ThO D | OECD 301C - MITI test (I) |
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 500-040-3 | Analogous Compound Hydrolysis | | Hydrolytic half-life (pH 7) | <2 hours (t 1/2) | |
| 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) | |
| Talc | 14807-96-6 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Silane, dichlorodimethyl-, reaction products with 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 |
|--|--------------|---|----------|------------------------|-------------|----------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 500-040-3 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation factor | 200 | |
| 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 |
| Talc | 14807-96-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Silane, dichlorodimethyl-, reaction products with silica | 68611-44-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

12.4. Mobility in soil

No test data available.

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|--|--|--|
| 14.1 UN number or ID number | No data available. | No data available. | No data available. |
| 14.2 UN proper shipping name | No data available. | No data available. | No data available. |
| 14.3 Transport hazard class(es) | No data available. | No data available. | No data available. |
| 14.4 Packing group | No data available. | No data available. | No data available. |
| 14.5 Environmental hazards | No data available. | No data available. | No data available. |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | No data available. | No data available. | No data available. |
| IMDG Segregation Code | No data available. | No data available. | No data available. |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|--|----------------|-------------------------|---|
| Fillers | Trade Secret | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| 4,4'-Methylenediphenyl diisocyanate, oligomers | 500-040-3 | Carc. 2 | Vendor classified according to Regulation (EC) No 1272/2008 |

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.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure: respiratory system. |

Revision information:

Section 1: Product use information information was modified.

Label: CLP Target Organ Hazard Statement information was modified.

Section 15: Carcinogenicity information information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M Ireland MSDSs are available at www.3M.com



Safety Data Sheet

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Revision date: 19/08/2025

Version number: 7.00
Supersedes date: 16/10/2023

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6330NS, Part B

Product Identification Numbers

62-3565-8530-7

7100143701

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Product

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone: +353 1 280 3555
E Mail: ner-productstewardship@mmm.com
Website: www.3M.com

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements**CLP REGULATION (EC) No 1272/2008****HAZARD STATEMENTS:**

H412 Harmful to aquatic life with long lasting effects.

SUPPLEMENTAL INFORMATION:**Supplemental Hazard Statements:**

EUH208 Contains PIPERAZINE. May produce an allergic reaction.

2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------|--|----------|---|
| Polyol | Trade Secret | 25 - 45 | Substance not classified as hazardous |
| Polyether Polyol | Trade Secret | 15 - 30 | Substance not classified as hazardous |
| Talc | (CAS-No.) 14807-96-6 (EC-No.) 238-877-9 | 15 - 30 | Substance with a national occupational exposure limit |
| Urethane Prepolymer | Trade Secret | 1 - 10 | Substance not classified as hazardous |
| Thickening Agent | Trade Secret | 0.1 - 5 | Substance not classified as hazardous |
| Quartz | (CAS-No.) 14808-60-7 (EC-No.) 238-878-4 | < 1 | STOT RE 1, H372 |
| PIPERAZINE | (CAS-No.) 110-85-0 (EC-No.) 203-808-3 (REACH-No.) 01-2119480384-35 | < 1 | Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1B, H334 Skin Sens. 1B, H317 Repr. 2, H361df Flam. Sol. 1, H228 |
| 2,6-Di-tert-butyl-p-cresol | (CAS-No.) 128-37-0 (EC-No.) 204-881-4 (REACH-No.) 01-2119565113-46 | < 0.5 | Aquatic Chronic 1, H410,M=1 Aquatic Acute 1, H400,M=1 |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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. 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

Aldehydes.
Carbon monoxide
Carbon dioxide.
Hydrogen Chloride
Oxides of nitrogen.

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice 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 vapours, in accordance with good industrial hygiene practice.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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 | CAS Nbr | Agency | Limit type | Additional comments |
|----------------------------|----------------|---------------|--|----------------------------------|
| PIPERAZINE | 110-85-0 | Ireland OELs | TWA(8 hours):0.1 mg/m ³ ;TWA(8 hours):0.1 mg/m ³ ;STEL(15 minutes):0.3 mg/m ³ ;STEL(15 minutes):0.3 mg/m ³ | Respiratory/Dermal Sensitizer |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Ireland OELs | TWA(8 hours):2 mg/m ³ | |
| Talc | 14807-96-6 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):0.8 mg/m ³ | |
| Quartz | 14808-60-7 | Ireland OELs | TWA(as respirable dust)(8 hours):0.1 mg/m ³ | |

Ireland OELs : Ireland. OELs

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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/vapours/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.

Applicable Norms/Standards

Use eye protection conforming to EN 166

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:

| Material | Thickness (mm) | Breakthrough Time |
|-----------------|-----------------------|--------------------------|
| Neoprene. | 0.5 | =>8 hours |
| Nitrile rubber. | 0.35 | =>8 hours |
| Natural rubber. | 0.5 | =>8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards

Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | Liquid. |
| Specific Physical Form: | Paste |
| Colour | Dark Green |
| Odor | Slight Ammoniacal |
| Odour threshold | No data available. |
| Melting point/freezing point | Not applicable. |
| Boiling point/boiling range | No data available. |
| Flammability | Not applicable. |
| Flammable Limits(LEL) | Not applicable. |
| Flammable Limits(UEL) | Not applicable. |
| Flash point | >=171.1 °C [Test Method:Closed Cup] |
| Autoignition temperature | No data available. |
| Decomposition temperature | No data available. |
| pH | substance/mixture is non-soluble (in water) |
| Kinematic Viscosity | 1,917 mm²/sec |
| Water solubility | Negligible |
| Solubility- non-water | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Vapour pressure | <= 0 Pa [@ 20 °C] |
| Density | 1.2 g/ml |
| Relative density | 1.2 [Ref Std:WATER=1] |
| Relative Vapour Density | Not applicable. |
| Particle Characteristics | Not applicable. |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

Not applicable.

Molecular weight

No data available.

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 polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong oxidising 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

Eye 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-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| 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 compounds | LD50 > 2,000 mg/kg |
| Polyether Polyol | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 3.2 mg/l |
| Polyether Polyol | Ingestion | similar | LD50 > 5,000 mg/kg |

| | | compound s | |
|----------------------------|-----------|---------------|------------------------------------|
| PIPERAZINE | Ingestion | Rat | LD50 2,300 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Rat | LD50 > 2,930 mg/kg |
| Quartz | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz | 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 compound s | Minimal irritation |
| PIPERAZINE | Rabbit | Corrosive |
| 2,6-Di-tert-butyl-p-cresol | Human and animal | Minimal irritation |
| Quartz | Profession al judgemen t | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|----------------------------|------------------------------|---------------------------|
| Polyol | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Polyether Polyol | similar compound s | Mild irritant |
| PIPERAZINE | similar health hazards | Corrosive |
| 2,6-Di-tert-butyl-p-cresol | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|----------------------------|--------------------------|----------------|
| Polyether Polyol | similar compound s | Not classified |
| PIPERAZINE | Human and animal | Sensitising |
| 2,6-Di-tert-butyl-p-cresol | Human | Not classified |

Respiratory Sensitisation

| Name | Species | Value |
|------------|---------|----------------|
| Talc | Human | Not classified |
| PIPERAZINE | Human | Sensitising |

Germ Cell Mutagenicity

| Name | Route | Value |
|------|----------|---------------|
| Talc | In Vitro | Not mutagenic |

| | | |
|----------------------------|----------|--|
| Talc | In vivo | Not mutagenic |
| Polyether Polyol | In Vitro | Not mutagenic |
| PIPERAZINE | In vivo | Not mutagenic |
| PIPERAZINE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,6-Di-tert-butyl-p-cresol | In Vitro | Not mutagenic |
| 2,6-Di-tert-butyl-p-cresol | In vivo | Not mutagenic |
| Quartz | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz | 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 |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Quartz | 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 |
| 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 mg/kg/day | during organogenesis |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

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 | Repeated and prolonged exposure to large amounts of talc dust can cause lung injury | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m³ | 113 weeks |
| PIPERAZINE | Ingestion | hematopoietic | Not classified | Rat | NOAEL | 90 days |

| | | | | | | |
|----------------------------|------------|---------------------------------------|--|-------|-----------------------|-----------------------|
| | | system eyes kidney and/or bladder | | | 1,250 mg/kg/day | |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |
| Quartz | 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 is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

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 | Analogous Compound | 72 hours | ErC50 | >100 mg/l |
| Thickening Agent | Trade Secret | Water flea | Analogous Compound | 48 hours | EC50 | >100 mg/l |

| | | | | | | |
|----------------------------|--------------|------------------|--------------------|------------|--------------------------------|--------------|
| Thickening Agent | Trade Secret | Zebra Fish | Analogous Compound | 96 hours | LC50 | >100 mg/l |
| Thickening Agent | Trade Secret | Green algae | Analogous Compound | 72 hours | NOEC | 100 mg/l |
| Thickening Agent | Trade Secret | Activated sludge | Analogous Compound | 3 hours | EC50 | >300 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 | 14808-60-7 | Green algae | Estimated | 72 hours | EC50 | 440 mg/l |
| Quartz | 14808-60-7 | Water flea | Estimated | 48 hours | EC50 | 7,600 mg/l |
| Quartz | 14808-60-7 | Zebra Fish | Estimated | 96 hours | LC50 | 5,000 mg/l |
| Quartz | 14808-60-7 | Green algae | Estimated | 72 hours | NOEC | 60 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | EC50 | >0.4 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Water flea | Experimental | 48 hours | EC50 | 0.48 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | EC10 | 0.4 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Medaka | Experimental | 42 days | NOEC | 0.053 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Water flea | Experimental | 21 days | NOEC | 0.023 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|----------------------------|--------------|-------------------------------|----------|---------------|------------------------------------|-------------------------------------|
| Polyol | Trade Secret | Experimental Biodegradation | 28 days | CO2 evolution | 38 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| Polyether Polyol | Trade Secret | Modeled Biodegradation | 28 days | BOD | 20 %BOD/ThO D | Catalogic™ |
| Talc | 14807-96-6 | 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 |
| Thickening Agent | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| PIPERAZINE | 110-85-0 | Experimental Biodegradation | 28 days | BOD | 65 %BOD/ThO D | OECD 301F - Manometric respirometry |
| Quartz | 14808-60-7 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2,6-Di-tert-butyl-p-cresol | 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 Kow | -2.6 | Episuite™ |
| 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 Kow | -1.24 | OECD 107 log Kow shke flask mtd |
| Quartz | 14808-60-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 1277 | OECD305-Bioconcentration |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|------------------|--------------|-------------------------------|------------|-------------|--------------------------------|
| Polyether Polyol | Trade Secret | Modeled Mobility in Soil | Koc | 13 l/kg | Episuite™ |
| PIPERAZINE | 110-85-0 | Experimental Mobility in Soil | Koc | 507 l/kg | OECD 106 Adsp-Desb Batch Equil |

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of

3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 10

Waste adhesives and sealants other than those mentioned in 08 04 09

SECTION 14: Transportation information

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|--|--|--|
| 14.1 UN number or ID number | No data available. | No data available. | No data available. |
| 14.2 UN proper shipping name | No data available. | No data available. | No data available. |
| 14.3 Transport hazard class(es) | No data available. | No data available. | No data available. |
| 14.4 Packing group | No data available. | No data available. | No data available. |
| 14.5 Environmental hazards | No data available. | No data available. | No data available. |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | No data available. | No data available. | No data available. |
| IMDG Segregation Code | No data available. | No data available. | No data available. |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|----------------------------|-----------------------|--------------------------------|---|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| Quartz | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Talc | 14807-96-6 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |

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.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information**List of relevant H statements**

| | |
|--------|--|
| H228 | Flammable solid. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H361df | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Section 1: Address information was modified.

Section 1: E-mail address information was modified.

Section 1: Product use information information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 6: Accidental release personal information information was modified.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Particle Characteristics N/A information was added.

Section 12: Component ecotoxicity information information was modified.

Section 15: Carcinogenicity information information was modified.

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