



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the SS586 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Safety-Walk(TM) Edging Compound

#### Product Identification Numbers

62-5569-2625-1      62-5569-2660-8      70-0705-4946-7      XT-0006-3136-3

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Edging Compound, Industrial use.

#### 1.3. Supplier's details

**Address:** 3M Technologies (S) Pte Ltd, 10 Ang Mo Kio Street 65, Singapore 569059  
**Telephone:** +65 6450 8888  
**Website:** [www.3m.com.sg](http://www.3m.com.sg)

#### 1.4. Emergency telephone number

+65 6591 6601 (8.15am - 5.00pm, Monday - Friday)

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.  
Skin Corrosion/Irritation: Category 2.  
Serious Eye Damage/Irritation: Category 2.  
Reproductive Toxicity: Category 1B.  
Specific Target Organ Toxicity (repeated exposure): Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.  
Chronic Aquatic Toxicity: Category 2.

#### 2.2. Label elements

##### SIGNAL WORD

DANGER!

##### Symbols

Flame | Exclamation mark | Health Hazard | Environment |

**Pictograms****HAZARD STATEMENTS**

|      |                                                                                                  |
|------|--------------------------------------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                                                              |
| H315 | Causes skin irritation.                                                                          |
| H319 | Causes serious eye irritation.                                                                   |
| H360 | May damage fertility or the unborn child.                                                        |
| H336 | May cause drowsiness or dizziness.                                                               |
| H372 | Causes damage to organs through prolonged or repeated exposure: nervous system   sensory organs. |
| H411 | Toxic to aquatic life with long lasting effects.                                                 |

**PRECAUTIONARY STATEMENTS****Prevention:**

|       |                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------|
| P201  | Obtain special instructions before use.                                                           |
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking. |
| P260  | Do not breathe dust/fume/gas/mist/vapours/spray.                                                  |
| P273  | Avoid release to the environment.                                                                 |
| P280F | Wear respiratory protection, if needed (see SDS Section 8).                                       |

**Response:**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical attention.                                                                                  |
| P370 + P378        | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.  |
| P391               | Collect spillage.                                                                                                                |

**2.3. Other hazards**

Aspiration hazard classification does not apply due to the kinematic viscosity of the product.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

| Ingredient                                   | CAS Nbr    | % by Wt |
|----------------------------------------------|------------|---------|
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | 40 - 50 |
| Poly (butyl methacrylate)                    | 9003-63-8  | 40 - 50 |
| Toluene                                      | 108-88-3   | 7 - 13  |
| Nonane                                       | 111-84-2   | < 10    |

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**Inhalation**

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

**Skin contact**

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

**Eye contact**

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

**If swallowed**

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

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

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). 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**

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**

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

**Hazardous Decomposition or By-Products****Substance**

Aldehydes.  
Hydrocarbons.  
Carbon monoxide.  
Carbon dioxide.  
Ketones.

**Condition**

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

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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 in accordance with applicable local/regional/national/international regulations.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidising 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 | CAS Nbr    | Agency         | Limit type                                    | Additional comments                         |
|------------|------------|----------------|-----------------------------------------------|---------------------------------------------|
| Toluene    | 108-88-3   | ACGIH          | TWA:20 ppm                                    | A4: Not class. as human carcin, Ototoxicant |
| Toluene    | 108-88-3   | Singapore PELs | TWA(8 hours):188 mg/m <sup>3</sup> (50 ppm)   |                                             |
| Nonane     | 111-84-2   | ACGIH          | TWA:200 ppm                                   |                                             |
| Nonane     | 111-84-2   | Singapore PELs | TWA(8 hours):1050 mg/m <sup>3</sup> (200 ppm) |                                             |
| Naphtha    | 64742-49-0 | Singapore PELs | TWA(8 hours):1370 mg/m <sup>3</sup> (300 ppm) |                                             |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Singapore PELs : Singapore. Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation 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

#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                                                    |
|---------------------------------------------------|----------------------------------------------------|
| Physical state                                    | Liquid.                                            |
| Color                                             | Colorless                                          |
| Odor                                              | Strong Naphtha                                     |
| Odour threshold                                   | No data available.                                 |
| pH                                                | No data available.                                 |
| Melting point/Freezing point                      | No data available.                                 |
| Boiling point/Initial boiling point/Boiling range | 111.1 °C [Details:CONDITIONS: (toluene)]           |
| Flash point                                       | 4.4 °C [Test Method:Closed Cup] [Details:MIT data] |
| Evaporation rate                                  | >=2 [Ref Std:ETHER=1]                              |
| Flammability                                      | Flammable Liquid: Category 2.                      |
| Flammable Limits(LEL)                             | 1 % volume                                         |
| Flammable Limits(UEL)                             | 7 % volume                                         |
| Vapour pressure                                   | <=22 mm Hg [@ 68 °F]                               |
| Relative Vapor Density                            | 3 [Ref Std:AIR=1]                                  |
| Density                                           | 0.88 g/ml                                          |
| Relative density                                  | 0.88 [Ref Std:WATER=1]                             |

|                                             |                                                |
|---------------------------------------------|------------------------------------------------|
| Water solubility                            | Nil                                            |
| 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                         | 4,318 mm <sup>2</sup> /sec                     |
| Volatile organic compounds (VOC)            | ≤55.5 % [Test Method:calculated per CARB]      |
| Percent volatile                            | 56.8 % weight                                  |
| VOC less H <sub>2</sub> O & exempt solvents | 410 g/l [Test Method:tested per EPA method 24] |
| 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 polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

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 labelling, 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. May cause additional health effects (see below).

**Skin contact**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

**Eye contact**

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Prolonged or repeated exposure may cause target organ effects:**

Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

**Reproductive/Developmental Toxicity:**

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

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

**Toxicological Data**

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

**Acute Toxicity**

| Name                                         | Route                      | Species           | Value                                          |
|----------------------------------------------|----------------------------|-------------------|------------------------------------------------|
| Overall product                              | Inhalation-Vapor(4 hr)     |                   | No data available; calculated ATE >50 mg/l     |
| Overall product                              | Ingestion                  |                   | No data available; calculated ATE >5,000 mg/kg |
| Poly (butyl methacrylate)                    | Dermal                     |                   | LD50 estimated to be > 5,000 mg/kg             |
| Poly (butyl methacrylate)                    | Ingestion                  |                   | LD50 estimated to be > 5,000 mg/kg             |
| NUC - Hydrotreated light naphtha (petroleum) | Dermal                     | Rabbit            | LD50 > 3,160 mg/kg                             |
| NUC - Hydrotreated light naphtha (petroleum) | Inhalation-Vapor (4 hours) | Rat               | LC50 > 14.7 mg/l                               |
| NUC - Hydrotreated light naphtha (petroleum) | Ingestion                  | Rat               | LD50 > 5,000 mg/kg                             |
| Toluene                                      | Dermal                     | Rat               | LD50 12,000 mg/kg                              |
| Toluene                                      | Inhalation-Vapor (4 hours) | Rat               | LC50 30 mg/l                                   |
| Toluene                                      | Ingestion                  | Rat               | LD50 5,550 mg/kg                               |
| Nonane                                       | Inhalation-Vapor (4 hours) | Rat               | LC50 17 mg/l                                   |
| Nonane                                       | Dermal                     | similar compounds | LD50 > 2,000 mg/kg                             |
| Nonane                                       | Ingestion                  | similar compound  | LD50 > 5,000 mg/kg                             |

|  |  |    |  |
|--|--|----|--|
|  |  | ds |  |
|--|--|----|--|

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                         | Species           | Value                     |
|----------------------------------------------|-------------------|---------------------------|
| Poly (butyl methacrylate)                    | Not available     | No significant irritation |
| NUC - Hydrotreated light naphtha (petroleum) | Rabbit            | Irritant                  |
| Toluene                                      | Rabbit            | Irritant                  |
| Nonane                                       | similar compounds | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                         | Species           | Value                     |
|----------------------------------------------|-------------------|---------------------------|
| Poly (butyl methacrylate)                    | Not available     | No significant irritation |
| NUC - Hydrotreated light naphtha (petroleum) | Rabbit            | Mild irritant             |
| Toluene                                      | Rabbit            | Moderate irritant         |
| Nonane                                       | similar compounds | Mild irritant             |

### Sensitization:

#### Skin Sensitisation

| Name                                         | Species           | Value          |
|----------------------------------------------|-------------------|----------------|
| NUC - Hydrotreated light naphtha (petroleum) | Guinea pig        | Not classified |
| Toluene                                      | Guinea pig        | Not classified |
| Nonane                                       | similar compounds | Not classified |

### Respiratory Sensitisation

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

### Germ Cell Mutagenicity

| Name                                         | Route    | Value         |
|----------------------------------------------|----------|---------------|
| NUC - Hydrotreated light naphtha (petroleum) | In Vitro | Not mutagenic |
| Toluene                                      | In Vitro | Not mutagenic |
| Toluene                                      | In vivo  | Not mutagenic |
| Nonane                                       | In Vitro | Not mutagenic |

### Carcinogenicity

| Name                                         | Route      | Species | Value                                                                        |
|----------------------------------------------|------------|---------|------------------------------------------------------------------------------|
| NUC - Hydrotreated light naphtha (petroleum) | Inhalation | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                      | Dermal     | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                      | Ingestion  | Rat     | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                      | Inhalation | 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      |
|---------|------------|----------------------------------------|---------|---------------------|------------------------|
| Toluene | Inhalation | Not classified for female reproduction | Human   | NOAEL Not available | occupational exposure  |
| Toluene | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 2.3 mg/l      | 1 generation           |
| Toluene | Ingestion  | Toxic to development                   | Rat     | LOAEL 520 mg/kg/day | during gestation       |
| Toluene | Inhalation | Toxic to development                   | Human   | NOAEL Not available | poisoning and/or abuse |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                         | Route      | Target Organ(s)                   | Value                                                                        | Species                 | Test result         | Exposure Duration      |
|----------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|------------------------|
| Poly (butyl methacrylate)                    | Inhalation | respiratory irritation            | Not classified                                                               |                         | NOAEL Not available |                        |
| NUC - Hydrotreated light naphtha (petroleum) | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal        | NOAEL Not available |                        |
| NUC - Hydrotreated light naphtha (petroleum) | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                         | NOAEL Not available |                        |
| NUC - Hydrotreated light naphtha (petroleum) | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement  | NOAEL Not available |                        |
| Toluene                                      | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Toluene                                      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Toluene                                      | Inhalation | immune system                     | Not classified                                                               | Mouse                   | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene                                      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Nonane                                       | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Multiple animal species | NOAEL Not available |                        |
| Nonane                                       | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Multiple animal species | NOAEL Not available |                        |

**Specific Target Organ Toxicity - repeated exposure**

| Name    | Route      | Target Organ(s)    | Value                                                                        | Species | Test result         | Exposure Duration      |
|---------|------------|--------------------|------------------------------------------------------------------------------|---------|---------------------|------------------------|
| Toluene | Inhalation | auditory system    | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | nervous system     | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | eyes               | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | olfactory system   | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 2.3 mg/l      | 15 months              |
| Toluene | Inhalation | heart              | Not classified                                                               | Rat     | NOAEL 11.3 mg/l     | 15 weeks               |
| Toluene | Inhalation | liver              | Not classified                                                               | Rat     | NOAEL 11.3 mg/l     | 15 weeks               |
| Toluene | Inhalation | kidney and/or      | Not classified                                                               | Rat     | NOAEL 11.3          | 15 weeks               |

**3M(TM) Safety-Walk(TM) Edging Compound**

|         |            |                                 |                                                                              |                         |                       |                       |
|---------|------------|---------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|
|         |            | bladder                         |                                                                              |                         | mg/l                  |                       |
| Toluene | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 1.1 mg/l        | 4 weeks               |
| Toluene | Inhalation | immune system                   | Not classified                                                               | Mouse                   | NOAEL Not available   | 20 days               |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified                                                               | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks               |
| Toluene | Inhalation | hematopoietic system            | Not classified                                                               | Human                   | NOAEL Not available   | occupational exposure |
| Toluene | Inhalation | vascular system                 | Not classified                                                               | Human                   | NOAEL Not available   | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract          | Not classified                                                               | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks              |
| Toluene | Ingestion  | nervous system                  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks              |
| Toluene | Ingestion  | heart                           | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene | Ingestion  | liver                           | Not classified                                                               | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene | Ingestion  | kidney and/or bladder           | Not classified                                                               | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene | Ingestion  | hematopoietic system            | Not classified                                                               | Mouse                   | NOAEL 600 mg/kg/day   | 14 days               |
| Toluene | Ingestion  | endocrine system                | Not classified                                                               | Mouse                   | NOAEL 105 mg/kg/day   | 28 days               |
| Toluene | Ingestion  | immune system                   | Not classified                                                               | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks               |
| Nonane  | Inhalation | nervous system                  | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | heart                           | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | gastrointestinal tract          | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | muscles                         | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Inhalation | respiratory system              | Not classified                                                               | Rat                     | NOAEL 8.4 mg/l        | 90 days               |
| Nonane  | Ingestion  | endocrine system                | Not classified                                                               | Rat                     | NOAEL 5,000 mg/kg/day | 90 days               |
| Nonane  | Ingestion  | gastrointestinal tract          | Not classified                                                               | Rat                     | NOAEL 5,000 mg/kg/day | 90 days               |
| Nonane  | Ingestion  | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 5,000 mg/kg/day | 90 days               |
| Nonane  | Ingestion  | liver                           | Not classified                                                               | Rat                     | NOAEL 5,000 mg/kg/day | 90 days               |
| Nonane  | Ingestion  | respiratory system              | Not classified                                                               | Rat                     | NOAEL 5,000 mg/kg/day | 90 days               |
| Nonane  | Ingestion  | heart                           | Not classified                                                               | Rat                     | NOAEL 5,000           | 90 days               |

|        |           |                                 |                |     | mg/kg/day                   |         |
|--------|-----------|---------------------------------|----------------|-----|-----------------------------|---------|
| Nonane | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL<br>5,000<br>mg/kg/day | 90 days |
| Nonane | Ingestion | immune system                   | Not classified | Rat | NOAEL<br>5,000<br>mg/kg/day | 90 days |
| Nonane | Ingestion | nervous system                  | Not classified | Rat | NOAEL<br>5,000<br>mg/kg/day | 90 days |
| Nonane | Ingestion | kidney and/or bladder           | Not classified | Rat | NOAEL<br>5,000<br>mg/kg/day | 90 days |
| Nonane | Ingestion | vascular system                 | Not classified | Rat | NOAEL<br>5,000<br>mg/kg/day | 90 days |

**Aspiration Hazard**

| Name                                         | Value             |
|----------------------------------------------|-------------------|
| NUC - Hydrotreated light naphtha (petroleum) | Aspiration hazard |
| Toluene                                      | Aspiration hazard |
| Nonane                                       | Aspiration hazard |

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 labelling, 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 2: Toxic to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

| Material                                     | CAS Nbr    | Organism       | Type      | Exposure | Test endpoint | Test result |
|----------------------------------------------|------------|----------------|-----------|----------|---------------|-------------|
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Fathead minnow | Estimated | 96 hours | LL50          | 8.2 mg/l    |
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Green algae    | Estimated | 72 hours | EL50          | 3.1 mg/l    |
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Water flea     | Estimated | 48 hours | EL50          | 4.5 mg/l    |
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Green algae    | Estimated | 72 hours | NOEL          | 0.5 mg/l    |
| NUC -                                        | 64742-49-0 | Water flea     | Estimated | 21 days  | NOEL          | 2.6 mg/l    |

**3M(TM) Safety-Walk(TM) Edging Compound**

|                                        |           |                  |                                                       |          |      |                              |
|----------------------------------------|-----------|------------------|-------------------------------------------------------|----------|------|------------------------------|
| Hydrotreated light naphtha (petroleum) |           |                  |                                                       |          |      |                              |
| Poly (butyl methacrylate)              | 9003-63-8 | N/A              | Data not available or insufficient for classification | N/A      | N/A  | NA                           |
| Toluene                                | 108-88-3  | Coho Salmon      | Experimental                                          | 96 hours | LC50 | 5.5 mg/l                     |
| Toluene                                | 108-88-3  | Grass Shrimp     | Experimental                                          | 96 hours | LC50 | 9.5 mg/l                     |
| Toluene                                | 108-88-3  | Green algae      | Experimental                                          | 72 hours | EC50 | 12.5 mg/l                    |
| Toluene                                | 108-88-3  | Leopard frog     | Experimental                                          | 9 days   | LC50 | 0.39 mg/l                    |
| Toluene                                | 108-88-3  | Pink Salmon      | Experimental                                          | 96 hours | LC50 | 6.41 mg/l                    |
| Toluene                                | 108-88-3  | Water flea       | Experimental                                          | 48 hours | EC50 | 3.78 mg/l                    |
| Toluene                                | 108-88-3  | Coho Salmon      | Experimental                                          | 40 days  | NOEC | 1.39 mg/l                    |
| Toluene                                | 108-88-3  | Diatom           | Experimental                                          | 72 hours | NOEC | 10 mg/l                      |
| Toluene                                | 108-88-3  | Water flea       | Experimental                                          | 7 days   | NOEC | 0.74 mg/l                    |
| Toluene                                | 108-88-3  | Activated sludge | Experimental                                          | 12 hours | IC50 | 292 mg/l                     |
| Toluene                                | 108-88-3  | Bacteria         | Experimental                                          | 16 hours | NOEC | 29 mg/l                      |
| Toluene                                | 108-88-3  | Bacteria         | Experimental                                          | 24 hours | EC50 | 84 mg/l                      |
| Toluene                                | 108-88-3  | Redworm          | Experimental                                          | 28 days  | LC50 | >150 mg per kg of bodyweight |
| Toluene                                | 108-88-3  | Soil microbes    | Experimental                                          | 28 days  | NOEC | <26 mg/kg (Dry Weight)       |
| Nonane                                 | 111-84-2  | Water flea       | Experimental                                          | 48 hours | EC50 | 0.2 mg/l                     |

**12.2. Persistence and degradability**

| Material                                     | CAS Nbr    | Test type                        | Duration | Study Type                    | Test result       | Protocol                            |
|----------------------------------------------|------------|----------------------------------|----------|-------------------------------|-------------------|-------------------------------------|
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Estimated Biodegradation         | 28 days  | BOD                           | 77 %BOD/ThOD      | OECD 301F - Manometric respirometry |
| Poly (butyl methacrylate)                    | 9003-63-8  | Data not available- insufficient | N/A      | N/A                           | N/A               | N/A                                 |
| Toluene                                      | 108-88-3   | Experimental Biodegradation      | 20 days  | BOD                           | 80 %BOD/ThOD      | APHA Std Meth Water/Wastewater      |
| Toluene                                      | 108-88-3   | Experimental Photolysis          |          | Photolytic half-life (in air) | 5.2 days (t 1/2)  |                                     |
| Nonane                                       | 111-84-2   | Experimental Biodegradation      | 28 days  | BOD                           | 96 %BOD/ThOD      |                                     |
| Nonane                                       | 111-84-2   | Experimental Photolysis          |          | Photolytic half-life (in air) | 3.07 days (t 1/2) |                                     |

**12.3 : Bioaccumulative potential**

| Material                                     | CAS Nbr    | Test type                                             | Duration | Study Type             | Test result | Protocol |
|----------------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|----------|
| NUC - Hydrotreated light naphtha (petroleum) | 64742-49-0 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A      |
| Poly (butyl methacrylate)                    | 9003-63-8  | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A      |
| Toluene                                      | 108-88-3   | Experimental BCF - Other                              | 72 hours | Bioaccumulation factor | 90          |          |
| Toluene                                      | 108-88-3   | Experimental Bioconcentration                         |          | Log Kow                | 2.73        |          |
| Nonane                                       | 111-84-2   | Experimental Bioconcentration                         |          | Log Kow                | 5.65        |          |

**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.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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****International Regulations**

UN No.: UN1866

UN Proper shipping name: RESIN SOLUTION

Transportation Class (IMO): 3-3 Flammable liquid

Transportation Class (IATA): 3-3 Flammable liquid

Other Dangerous Goods Descriptions (IMO): None assigned

Other Dangerous Goods Descriptions (IATA): None assigned

Packing Group: II

Marine pollutant: None assigned

**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 material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

**This product may contain component(s) that are regulated by the following:**

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: this product is subject to SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations: This product is subject to the requirements in the Regulations

**SECTION 16: Other 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 Singapore SDSs are available at [www.3m.com.sg](http://www.3m.com.sg)**