# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document group:** | 05-7424-4 | **Version number:** | 22.00 |
| **Revision date:** | 30/10/2025 | **Supersedes date:** | 10/04/2024 |

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 08537 Brushable Seam Sealer

**Product Identification Numbers**
FS-9100-3115-2 UU-0129-8396-9

7000079947 7100332114

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

**Identified uses**
Automotive.

### 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

## 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.
The aspiration hazard classification is not required due to the product's physical form.

**CLASSIFICATION:**
Flammable Solid, Category 1 - Flam. Sol. 1; H228

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
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**
GHS02 (Flame) |GHS07 (Exclamation mark) |

**Pictograms**

**Ingredients:**

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | 927-510-4 | 5 - 10 |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | 919-857-5 | < 10 |
| Reaction mass of ethylbenzene and xylene | | 905-588-0 | < 10 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H228 | Flammable solid. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours. |

**Response:**

| | |
|---|---|
| P370 + P378 | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

**SUPPLEMENTAL INFORMATION:**

**Supplemental Hazard Statements:**

| | |
|---|---|
| EUH018 | In use, may form flammable/explosive vapour-air mixture. |

**Supplemental Precautionary Statements:**
Provide ventilation adequate to maintain vapour concentration below lower explosive concentration.

77% of the mixture consists of components of unknown acute oral toxicity.
77% of the mixture consists of components of unknown acute dermal toxicity.
77% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 77% of components with unknown hazards to the aquatic environment.

**EU VOC Directive (2004/42/EC) labelling:** 2004/42/EC IIB(e)(840)
470g/l

**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] |
|---|---|---|---|
| Non-Hazardous Ingredients | Trade Secret | 40 - 60 | Substance not classified as hazardous |
| Acrylonitrile Butadiene Rubber | Trade Secret | 10 - 20 | Substance not classified as hazardous |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | (EC-No.) 919-857-5<br>(REACH-No.) 01-2119463258-33 | < 10 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH066 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | (EC-No.) 927-510-4<br>(REACH-No.) 01-2119475515-33 | 5 - 10 | Aquatic Chronic 2, H411<br>Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336 |
| Reaction mass of ethylbenzene and xylene | (EC-No.) 905-588-0<br>(REACH-No.) 01-2119488216-32 | < 10 | Acute Tox. 4, H332<br>Acute Tox. 4, H312<br>Aquatic Chronic 3, H412<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 |
| n-butyl acetate | (CAS-No.) 123-86-4<br>(EC-No.) 204-658-1<br>(REACH-No.) 01-2119485493-29 | 1 - 5 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 |
| Mineral | Trade Secret | 1 - 5 | Substance with a national occupational exposure limit |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
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**
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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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:
Irritation to the skin (localized redness, swelling, itching, and dryness). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

**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 carbon dioxide or dry chemical extinguisher to extinguish.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product. No closed-cup flash point but flam/expl. vapor air mixture Material displays no closed-cup flash point but may form flammable/explosive vapor air mixture.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Irritant vapours or gases. | 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**
Keep away from sparks/flames/extreme heat Keep away from sparks, flames, and extreme heat. 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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Eliminate ignition sources when cleaning spill Eliminate all potential ignition sources when cleaning up spill. 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. 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**
Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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 vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer. Keep away from sparks/flames/extreme heat Keep away from sparks, flames, and extreme heat.

**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 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 |
|---|---|---|---|---|
| n-butyl acetate | 123-86-4 | Ireland OELs | TWA(8 hours):241 mg/m3(50 ppm);TWA(8 hours):50 ppm(241 mg/m3);STEL(15 minutes):723 mg/m3(150 ppm);STEL(15 minutes):150 ppm(723 mg/m3) | |
| Mineral | Trade Secret | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m3;TWA(as | |

respirable dust)(8 hours):0.8 mg/m3

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.

**Derived no effect level (DNEL)**

| Ingredient | Degradation Product | Population | Human exposure pattern | DNEL |
|---|---|---|---|---|
| n-butyl acetate | | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 11 mg/kg bw/d |
| n-butyl acetate | | Worker | Dermal, Short-term exposure, Systemic effects | 11 mg/kg bw/d |
| n-butyl acetate | | Worker | Inhalation, Long-term exposure (8 hours), Local effects | 300 mg/m³ |
| n-butyl acetate | | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 300 mg/m³ |
| n-butyl acetate | | Worker | Inhalation, Short-term exposure, Local effects | 600 mg/m³ |
| n-butyl acetate | | Worker | Inhalation, Short-term exposure, Systemic effects | 600 mg/m³ |

**Predicted no effect concentrations (PNEC)**

| Ingredient | Degradation Product | Compartment | PNEC |
|---|---|---|---|
| n-butyl acetate | | Agricultural soil | 0.0903 mg/kg d.w. |
| n-butyl acetate | | Freshwater | 0.18 mg/l |
| n-butyl acetate | | Freshwater sediments | 0.981 mg/kg d.w. |
| n-butyl acetate | | Intermittent releases to water | 0.36 mg/l |
| n-butyl acetate | | Marine water | 0.018 mg/l |
| n-butyl acetate | | Marine water sediments | 0.0981 mg/kg d.w. |
| n-butyl acetate | | Sewage Treatment Plant | 35.6 mg/l |

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

**8.2. Exposure controls**

In addition, refer to the annex for more information.

**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. Provide ventilation adequate to maintain vapor concentration below lower explosive concentration.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**
None required.

**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

**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

**8.2.3. Environmental exposure controls**
Refer to Annex

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Solid. |
| **Specific Physical Form:** | Paste |
| **Colour** | Grey |
| **Odor** | Characteristic Solvent |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | >= 78.5 ºC [*Details:*MEK] |
| **Flammability** | Flammable Solid: Category 1. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Flash point** | >= -4 ºC [*Test Method:*Closed Cup] |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-soluble (in water)* |
| **Kinematic Viscosity** | 458,333 mm²/sec [@ 25 ºC] |

| | |
|---|---|
| **Water solubility** | Insoluble |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | *No data available.* |
| **Density** | 1.2 g/ml [@ 25 ºC ] |
| **Relative density** | 1.1 - 1.2 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

**EU Volatile Organic Compounds** 29 %

**Evaporation rate** *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.
Static discharge (Solids can generate static electricity charges when transferred and in mixing operations sufficient to be an ignition source.)
Sparks and/or flames.
Static discharge (Solids can generate static electricity charges when transferred and in mixing operations sufficient to be an ignition source.)

**10.5 Incompatible materials**

Strong oxidising agents.
Water

**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**
May be harmful if inhaled. 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 localised redness, swelling, itching, dryness, cracking, blistering, and pain.

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

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

**Additional Health Effects:**

**Single exposure may cause target organ effects:**
Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. 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:**
Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. 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.

**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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 2,920 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation-Vapour (4 hours) | Rat | LC50 > 23.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,840 mg/kg |
| Reaction mass of ethylbenzene and xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Reaction mass of ethylbenzene and xylene | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| Reaction mass of ethylbenzene and xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Ingestion | Rat | LD50 > 5,000 mg/kg |

| | | | |
|---|---|---|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| n-butyl acetate | Dermal | Rabbit | LD50 > 14,112 mg/kg |
| n-butyl acetate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 1.8 mg/l |
| n-butyl acetate | Inhalation-Vapour (4 hours) | Rat | LC50 > 21 mg/l |
| n-butyl acetate | Ingestion | Rat | LD50 > 10,760 mg/kg |
| Mineral | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Mineral | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Irritant |
| Reaction mass of ethylbenzene and xylene | Rabbit | Mild irritant |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | similar compounds | Mild irritant |
| n-butyl acetate | Rabbit | No significant irritation |
| Mineral | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Mild irritant |
| Reaction mass of ethylbenzene and xylene | Rabbit | Mild irritant |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | similar compounds | No significant irritation |
| n-butyl acetate | Human | Mild irritant |
| Mineral | Rabbit | No significant irritation |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Guinea pig | Not classified |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | similar compounds | Not classified |
| n-butyl acetate | Multiple animal species | Not classified |

**Respiratory Sensitisation**

| Name | Species | Value |
|---|---|---|
| Mineral | Human | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | In Vitro | Not mutagenic |
| Reaction mass of ethylbenzene and xylene | In Vitro | Not mutagenic |
| Reaction mass of ethylbenzene and xylene | In vivo | Not mutagenic |

| | | |
|---|---|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | In Vitro | Not mutagenic |
| n-butyl acetate | In Vitro | Not mutagenic |
| Mineral | In Vitro | Not mutagenic |
| Mineral | In vivo | Not mutagenic |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Reaction mass of ethylbenzene and xylene | Dermal | Rat | Not carcinogenic |
| Reaction mass of ethylbenzene and xylene | Ingestion | Multiple animal species | Not carcinogenic |
| Reaction mass of ethylbenzene and xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Mineral | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| Mineral | Inhalation | Rat | Carcinogenic. |

## Reproductive Toxicity

## Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for development | Rat | NOAEL Not available | 2 generation |
| Reaction mass of ethylbenzene and xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Reaction mass of ethylbenzene and xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Reaction mass of ethylbenzene and xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| n-butyl acetate | Inhalation | Not classified for female reproduction | Rat | NOAEL 9.5 mg/l | 2 generation |
| n-butyl acetate | Inhalation | Not classified for male reproduction | Rat | NOAEL 9.5 mg/l | 2 generation |
| n-butyl acetate | Inhalation | Not classified for development | Rat | NOAEL 3.6 mg/l | 2 generation |
| Mineral | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |

## Lactation

| Name | Route | Species | Value |
|---|---|---|---|
| Reaction mass of ethylbenzene and xylene | Ingestion | Mouse | Not classified for effects on or via lactation |

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Reaction mass of ethylbenzene and xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Reaction mass of ethylbenzene and xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Reaction mass of ethylbenzene and xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | similar compounds | NOAEL Not available | |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| n-butyl acetate | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| n-butyl acetate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | not available |
| n-butyl acetate | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |

## Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Reaction mass of ethylbenzene and xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Reaction mass of ethylbenzene and xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Reaction mass of ethylbenzene and xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | heart \| endocrine system \| gastrointestinal tract \| hematopoietic system \| muscles \| kidney and/or bladder \| respiratory system | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Reaction mass of ethylbenzene and xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Reaction mass of ethylbenzene and xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Reaction mass of ethylbenzene and xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Ingestion | heart \| skin \| endocrine system \| bone, teeth, nails, and/or hair \| hematopoietic system \| immune system \| nervous system \| respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Inhalation | liver \| kidney and/or bladder \| endocrine system \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| hematopoietic | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system \| muscles \| nervous system \| respiratory system \| vascular system | | | | |
| n-butyl acetate | Inhalation | endocrine system \| hematopoietic system \| liver \| nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 9.6 mg/l | 13 weeks |
| n-butyl acetate | Inhalation | gastrointestinal tract \| respiratory system | Not classified | Rat | NOAEL 4.8 mg/l | 13 weeks |
| n-butyl acetate | Inhalation | heart \| bone, teeth, nails, and/or hair \| immune system \| eyes \| vascular system | Not classified | Rat | NOAEL 9.6 mg/l | 13 weeks |
| Mineral | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Mineral | Inhalation | pulmonary fibrosis \| respiratory system | Not classified | Rat | NOAEL 18 mg/m³ | 113 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration hazard |
| Reaction mass of ethylbenzene and xylene | Aspiration hazard |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 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.**

### 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 |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | EL50 | 29 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 48 hours | EL50 | 3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Rainbow trout | Experimental | 96 hours | LL50 | >13.4 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 21 days | NOEL | 1 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Amphipod | Analogous Compound | 10 days | LL50 | 1,100 mg/kg (Dry Weight) |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Green algae | Experimental | 72 hours | EL50 | >1,000 mg/l |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Rainbow trout | Experimental | 96 hours | LL50 | >1,000 mg/l |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Water flea | Experimental | 48 hours | EL50 | >1,000 mg/l |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Green algae | Experimental | 72 hours | NOEL | 100 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Green algae | Analogous Compound | 73 hours | ErC50 | 4.36 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Rainbow trout | Analogous Compound | 96 hours | LC50 | 2.6 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Water flea | Analogous Compound | 48 hours | EC50 | 3.82 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Green algae | Analogous Compound | 73 hours | NOEC | 0.44 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Rainbow trout | Analogous Compound | 56 days | NOEC | 1.3 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Water flea | Analogous Compound | 7 days | NOEC | 0.96 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Activated sludge | Analogous Compound | 30 minutes | EC50 | >198 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Redworm | Analogous Compound | 56 days | NOEC | 42.6 mg/kg (Dry Weight) |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Soil microbes | Analogous Compound | 28 days | EC50 | >1,000 mg/kg (Dry Weight) |
| Mineral | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| n-butyl acetate | 123-86-4 | Green algae | Analogous Compound | 72 hours | ErC50 | 397 mg/l |
| n-butyl acetate | 123-86-4 | Fathead minnow | Experimental | 96 hours | LC50 | 18 mg/l |
| n-butyl acetate | 123-86-4 | Water flea | Experimental | 48 hours | EC50 | 44 mg/l |
| n-butyl acetate | 123-86-4 | Green algae | Analogous Compound | 72 hours | NOEC | 196 mg/l |
| n-butyl acetate | 123-86-4 | Water flea | Analogous Compound | 21 days | NOEC | 23.2 mg/l |
| n-butyl acetate | 123-86-4 | Ciliated protozoa | Experimental | 40 hours | IC50 | 356 mg/l |
| n-butyl acetate | 123-86-4 | Lettuce | Experimental | 14 days | EC50 | >1,000 mg/kg (Dry Weight) |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/COD | OECD 301F - Manometric respirometry |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, | 919-857-5 | Experimental Biodegradation | 28 days | BOD | 80 %BOD/ThOD | OECD 301F - Manometric respirometry |

| | | | | | | |
|---|---|---|---|---|---|---|
| < 2% aromatics | | | | | | |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Analogous Compound Biodegradation | 28 days | BOD | 94 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Mineral | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| n-butyl acetate | 123-86-4 | Experimental Biodegradation | 28 days | BOD | 83 %BOD/ThOD | OECD 301D - Closed bottle test |
| n-butyl acetate | 123-86-4 | Experimental Photolysis | | Photolytic half-life (in air) | 6.3 days (t 1/2) | |
| n-butyl acetate | 123-86-4 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 3.1 years (t 1/2) | |

**12.3 : Bioaccumulative potential**

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 919-857-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Analogous Compound BCF - Fish | 56 days | Bioaccumulation factor | <=25.9 | |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Analogous Compound Bioconcentration | | Log Kow | 3.2 | |
| Mineral | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| n-butyl acetate | 123-86-4 | Experimental Bioconcentration | | Log Kow | 2.3 | OECD 117 log Kow HPLC method |

**12.4. Mobility in soil**

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Analogous Compound Mobility in Soil | Koc | 537 l/kg | |
| n-butyl acetate | 123-86-4 | Modeled Mobility in Soil | Koc | 135 l/kg | Episuite™ |

**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.

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.

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
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

## SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|---|---|---|
| **14.1 UN number or ID number** | UN1139 | UN1139 | UN1139 |
| **14.2 UN proper shipping name** | COATING SOLUTION | COATING SOLUTION | COATING SOLUTION |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 |
| **14.4 Packing group** | II | II | II |
| **14.5 Environmental hazards** | Not Environmentally Hazardous | Not applicable | Not a Marine Pollutant |
| **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** | F1 | Not applicable. | Not applicable. |
| **IMDG Segregation Code** | Not applicable. | Not applicable. | NONE |

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**

| Ingredient | CAS Nbr | Classification | Regulation |
|---|---|---|---|
| Mineral | Trade Secret | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |

**Global inventory status**
Contact 3M for more information.

**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**

| | |
|---|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | 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.
CLP: Ingredient table information was modified.

Section 02: CLP Physical and Health Hazard Statements information was modified.
Label: CLP Classification information was modified.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was modified.
Label: CLP Target Organ Hazard Statement information was deleted.
Label: Graphic information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 04: First Aid - Symptoms and Effects (CLP) information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 7: Precautions safe handling information information was modified.
Section 8: Eye protection information information was added.
Section 8: Eye/face protection information information was deleted.
Section 8: Occupational exposure limit table information was modified.
Section 8: Personal Protection - Eye information information was deleted.
Section 9: Density information information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 11: Acute Toxicity table information was modified.
Section 11: Cancer Hazards information information was added.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was added.
Section 11: Respiratory Sensitization text information was deleted.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Single exposure may cause standard phrases information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 15: Carcinogenicity information information was added.
Section 15: Seveso Substance Text information was deleted.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

# Annex

| **1. Title** | |
|---|---|
| **Substance identification** | |
| **Exposure Scenario Name** | Industrial Use of Coatings |
| **Lifecycle Stage** | Use at industrial sites |
| **Contributing activities** | PROC 07 -Industrial spraying<br>PROC 10 -Roller application or brushing<br>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| **Processes, tasks and activities covered** | Application of product with a roller or brush. Spraying of substances/mixtures. |
| **2. Operational conditions and risk management measures** | |
| **Operating Conditions** | **Physical state:**Liquid.<br>**General operating conditions:**<br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of use: 8 hours/day; |

| | |
|---|---|
| | Emission days per year: 300 days/year;<br>Indoors with good general ventilation; |
| **Risk management measures** | Under the operational conditions described above the following risk management measures apply:<br>**General risk management measures:**<br>**Human health:**<br>None needed;<br>**Environmental:**<br>None needed; |
| **Waste management measures** | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| **3. Prediction of exposure** | |
| **Prediction of exposure** | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|---|
| **1. Title** | |
| **Substance identification** | |
| **Exposure Scenario Name** | Industrial Use of Coatings |
| **Lifecycle Stage** | Use at industrial sites |
| **Contributing activities** | PROC 05 -Mixing or blending in batch processes<br>PROC 07 -Industrial spraying<br>PROC 10 -Roller application or brushing<br>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| **Processes, tasks and activities covered** | Application of product. Mixing operations (open systems). Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. |
| **2. Operational conditions and risk management measures** | |
| **Operating Conditions** | **Physical state:**Liquid.<br>**General operating conditions:**<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br><br>**Task: PROC07**;<br>Air exchange rate:: 10 - 15 ; |
| **Risk management measures** | Under the operational conditions described above the following risk management measures apply:<br>**General risk management measures:**<br>**Human health:**<br>Goggles - Chemical resistant;<br>**Environmental:**<br>None needed;<br>;<br>The following task-specific risk management measures apply in addition to those listed above:<br>**Task: Transferring Material**;<br>**Human Health**;<br>Half-facepiece air-purifying respirator;<br><br>**Task: PROC05**;<br>**Human Health**;<br>Local exhaust ventilation;<br><br>**Task: PROC07**;<br>**Human Health**;<br>Half-facepiece air-purifying respirator;<br><br>**Task: PROC10**;<br>**Human Health**;<br>Provide extract ventilation to points where emissions occur; |

| | |
|---|---|
| **Waste management measures** | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| **3. Prediction of exposure** | |
| **Prediction of exposure** | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|---|
| **1. Title** | |
| **Substance identification** | |
| **Exposure Scenario Name** | Professional Use of Coatings |
| **Lifecycle Stage** | Widespread use by professional workers |
| **Contributing activities** | PROC 10 -Roller application or brushing<br>PROC 11 -Non industrial spraying<br>ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
| **Processes, tasks and activities covered** | Application of product with a roller or brush. Spraying of substances/mixtures. |
| **2. Operational conditions and risk management measures** | |
| **Operating Conditions** | **Physical state:**Liquid.<br>**General operating conditions:**<br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of use: 8 hours/day;<br>Indoors with good general ventilation; |
| **Risk management measures** | Under the operational conditions described above the following risk management measures apply:<br>**General risk management measures:**<br>**Human health:**<br>None needed;<br>**Environmental:**<br>None needed; |
| **Waste management measures** | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| **3. Prediction of exposure** | |
| **Prediction of exposure** | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|---|
| **1. Title** | |
| **Substance identification** | |
| **Exposure Scenario Name** | Professional Use of Coatings |
| **Lifecycle Stage** | Widespread use by professional workers |
| **Contributing activities** | PROC 05 -Mixing or blending in batch processes<br>PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities<br>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 10 -Roller application or brushing<br>ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
| **Processes, tasks and activities covered** | Application of product. Mixing operations (open systems). Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. |
| **2. Operational conditions and risk management measures** | |
| **Operating Conditions** | **Physical state:**Liquid.<br>**General operating conditions:**<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day; |
| **Risk management measures** | Under the operational conditions described above the following risk management measures apply:<br>**General risk management measures:** |

| | |
|---|---|
| | **Human health:**<br>Goggles - Chemical resistant;<br>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);<br>**Environmental:**<br>None needed;<br>;<br>The following task-specific risk management measures apply in addition to those listed above:<br>**Task: Transferring Material**;<br>**Human Health**;<br>Half-facepiece air-purifying respirator;<br><br>**Task: Mixing**;<br>**Human Health**;<br>Half-facepiece air-purifying respirator; |
| **Waste management measures** | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| **3. Prediction of exposure** | |
| **Prediction of exposure** | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

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**