



Safety Data Sheet

Copyright, 2025, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

| | | | |
|------------------------|------------|-------------------------|----------------|
| Document group: | 45-5309-5 | Version number: | 1.00 |
| Revision date: | 23/06/2025 | Supersedes date: | Initial issue. |

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

08873 PROTECTIVE COATING BLACK

Product Identification Numbers

UU-0112-0162-9

7100239806

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 viscosity.

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS02 (Flame) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------|-----------|-----------|---------|
| xylene | 1330-20-7 | 215-535-7 | 10 - 30 |

HAZARD STATEMENTS:

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs. |
| 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. |
| P260E | Do not breathe vapour or spray. |

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

23% of the mixture consists of components of unknown acute oral toxicity.
 23% of the mixture consists of components of unknown acute dermal toxicity.
 23% of the mixture consists of components of unknown acute inhalation toxicity.
 Contains 23% of components with unknown hazards to the aquatic environment.

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] |
|--|---|-----------|---|
| Calcium carbonate | (CAS-No.) 471-34-1 (EC-No.) 207-439-9 | 15 - 40 | Substance with a national occupational exposure limit |
| Alkyd dry resin | None | 10 - 30 | Substance not classified as hazardous |
| xylene | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (REACH-No.) 01-2119488216-32 | 10 - 30 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315 Nota C,C Asp. Tox. 1, H304 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| Limestone | (CAS-No.) 1317-65-3 (EC-No.) 215-279-6 | 7 - 13 | Substance with a national occupational exposure limit |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | (EC-No.) 927-510-4 (REACH-No.) 01-2119475515-33 | 7 - 13 | Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 |
| Bentonite | None | 1 - 5 | Substance not classified as hazardous |
| Triiron tetraoxide | (CAS-No.) 1317-61-9 (EC-No.) 215-277-5 | 1 - 5 | Substance not classified as hazardous |
| Polyethylene | (CAS-No.) 9002-88-4 | 1 - 5 | Substance with a national occupational exposure limit |
| ethyl acetate | (CAS-No.) 141-78-6 (EC-No.) 205-500-4 (REACH-No.) 01-2119475103-46 | < 3 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| Water | (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 | 0.5 - 1.5 | Substance not classified as hazardous |

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:

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain).

Irritation to the skin (localized redness, swelling, itching, and dryness). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. See Section 11 for additional details.

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

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

| <u>Substance</u> | <u>Condition</u> |
|----------------------------|--------------------|
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Irritant vapours or gases. | During combustion. |

5.3. Advice 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

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

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.

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 use in a confined area with minimal air exchange. 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. 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.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. 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 |
|------------|-----------|--------------|-----------------------------|---------------------|
| Limestone | 1317-65-3 | Ireland OELs | TWA(Total inhalable dust)(8 | |

| | | | |
|---|-----------|--------------|--|
| hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ | | | |
| xylylene | 1330-20-7 | Ireland OELs | TWA(8 hours):221 mg/m ³ (50 ppm);TWA(8 hours):50 ppm(221 mg/m ³);STEL(15 minutes):442 mg/m ³ (100 ppm);STEL(15 minutes):100 ppm(442 mg/m ³) SKIN |
| ethyl acetate | 141-78-6 | Ireland OELs | TWA(8 hours):734 mg/m ³ (200 ppm);TWA(8 hours):200 ppm(734 mg/m ³);STEL(15 minutes):1468 mg/m ³ (400 ppm);STEL(15 minutes):400 ppm(1468 mg/m ³) |
| DUST, INERT OR NUISANCE | 471-34-1 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ |
| DUST, INERT OR NUISANCE | 9002-88-4 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ |

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

Biological limit values

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

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

8.2. Exposure controls

8.2.1. Engineering controls

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

Applicable Norms/Standards

Use eye protection conforming to EN 166

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions.

Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

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

Applicable Norms/Standards

Use gloves tested to EN 374

Respiratory protection

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

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

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

Applicable Norms/Standards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | Liquid. |
| Specific Physical Form: | Viscous. |
| Colour | Black |
| Odor | Solvent |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | ≥ 35.1 °C |
| Flammability | Flammable Liquid: Category 2. |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | ≤ 23 °C |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | ≥ 20.5 mm ² /sec [Details:40°C] |
| Water solubility | Insoluble |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <i>No data available.</i> |
| Density | 1.27 - 1.31 kg/l |
| Relative density | <i>Not applicable.</i> |
| Relative Vapour Density | <i>No data available.</i> |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics**EU Volatile Organic Compounds**

475 g/l

Evaporation rate*No data available.***Percent volatile***No data available.***SECTION 10: Stability and reactivity****10.1 Reactivity**

This material is considered to be non reactive under normal use conditions

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 acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products**Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Signs and Symptoms of Exposure**

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

Inhalation

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:

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.

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 >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Calcium carbonate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Calcium carbonate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| Calcium carbonate | Ingestion | Rat | LD50 6,450 mg/kg |
| xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| xylene | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| xylene | Ingestion | Rat | LD50 3,523 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 |
| Limestone | Dermal | Rat | LD50 > 2,000 mg/kg |
| Limestone | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| Limestone | Ingestion | Rat | LD50 6,450 mg/kg |
| Triiron tetraoxide | Dermal | Not available | LD50 3,100 mg/kg |
| Triiron tetraoxide | Ingestion | Not available | LD50 3,700 mg/kg |
| ethyl acetate | Dermal | Rabbit | LD50 > 18,000 mg/kg |
| ethyl acetate | Inhalation-Vapour (4 hours) | Rat | LC50 70.5 mg/l |
| ethyl acetate | Ingestion | Rat | LD50 5,620 mg/kg |
| Polyethylene | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Polyethylene | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Calcium carbonate | Rabbit | No significant irritation |
| xylene | Rabbit | Mild irritant |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Irritant |
| Limestone | Rabbit | No significant irritation |
| Triiron tetraoxide | Rabbit | No significant irritation |
| ethyl acetate | Rabbit | Minimal irritation |
| Polyethylene | Professional judgement | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Calcium carbonate | Rabbit | No significant irritation |
| xylene | Rabbit | Mild irritant |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Mild irritant |
| Limestone | Rabbit | No significant irritation |
| Triiron tetraoxide | Rabbit | No significant irritation |
| ethyl acetate | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|--|------------|----------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Guinea pig | Not classified |
| Triiron tetraoxide | Human | Not classified |
| ethyl acetate | Guinea pig | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|---------------|
| xylene | In Vitro | Not mutagenic |
| xylene | In vivo | Not mutagenic |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | In Vitro | Not mutagenic |
| Triiron tetraoxide | In Vitro | Not mutagenic |
| ethyl acetate | In Vitro | Not mutagenic |
| ethyl acetate | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------|----------------|-------------------------|--|
| xylene | Dermal | Rat | Not carcinogenic |
| xylene | Ingestion | Multiple animal species | Not carcinogenic |
| xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Triiron tetraoxide | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Polyethylene | Not specified. | Multiple animal species | 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 |
|--|----------------|--|-------------------------|---------------------|------------------------------|
| Calcium carbonate | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | premating & during gestation |
| xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| 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 |
| Limestone | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | premating & during gestation |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|--|
| 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 |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| Calcium carbonate | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Limestone | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| ethyl acetate | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| ethyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| ethyl acetate | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------|------------|--|--|-------------------------|-----------------------|-----------------------|
| Calcium carbonate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| 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 |
| xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| 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 |
| Limestone | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Triiron tetraoxide | Inhalation | pulmonary fibrosis pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| ethyl acetate | Inhalation | endocrine system liver nervous system | Not classified | Rat | NOAEL 0.043 mg/l | 90 days |
| ethyl acetate | Inhalation | hematopoietic system | Not classified | Rabbit | LOAEL 16 mg/l | 40 days |
| ethyl acetate | Ingestion | hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 3,600 mg/kg/day | 90 days |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| xylene | Aspiration hazard |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 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 |
|--|-----------|------------------|--------------------|----------|--------------------------------|-------------|
| Calcium carbonate | 471-34-1 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Calcium carbonate | 471-34-1 | Rainbow trout | Experimental | 96 hours | LC50 | >100 mg/l |
| Calcium carbonate | 471-34-1 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Calcium carbonate | 471-34-1 | Green algae | Experimental | 72 hours | EC10 | 100 mg/l |
| xylene | 1330-20-7 | Activated sludge | Estimated | 3 hours | NOEC | 157 mg/l |
| xylene | 1330-20-7 | Green algae | Estimated | 72 hours | EC50 | 4.36 mg/l |
| xylene | 1330-20-7 | Rainbow trout | Estimated | 96 hours | LC50 | 2.6 mg/l |
| xylene | 1330-20-7 | Water flea | Estimated | 48 hours | EC50 | 3.82 mg/l |
| xylene | 1330-20-7 | Green algae | Estimated | 72 hours | NOEC | 0.44 mg/l |
| xylene | 1330-20-7 | Water flea | Estimated | 7 days | NOEC | 0.96 mg/l |
| xylene | 1330-20-7 | Rainbow trout | Experimental | 56 days | NOEC | >1.3 mg/l |
| 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 |
| Limestone | 1317-65-3 | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| Limestone | 1317-65-3 | Rainbow trout | Estimated | 96 hours | LC50 | >100 mg/l |
| Limestone | 1317-65-3 | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| Limestone | 1317-65-3 | Green algae | Estimated | 72 hours | EC10 | >100 mg/l |
| Triiron tetraoxide | 1317-61-9 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Triiron tetraoxide | 1317-61-9 | Water flea | Analogous Compound | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Triiron tetraoxide | 1317-61-9 | Zebra Fish | Analogous Compound | 96 hours | No tox obs at lmt of water sol | >100 mg/l |

| | | | | | | |
|--------------------|-----------|------------------|---|----------|--------------------------------|---------------|
| Triiron tetraoxide | 1317-61-9 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Triiron tetraoxide | 1317-61-9 | Water flea | Analogous Compound | 21 days | No tox obs at lmt of water sol | >100 mg/l |
| Triiron tetraoxide | 1317-61-9 | Activated sludge | Analogous Compound | 3 hours | EC50 | >=10,000 mg/l |
| Polyethylene | 9002-88-4 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| ethyl acetate | 141-78-6 | Bacteria | Experimental | 18 hours | EC10 | 2,900 mg/l |
| ethyl acetate | 141-78-6 | Fish | Experimental | 96 hours | LC50 | 212.5 mg/l |
| ethyl acetate | 141-78-6 | Invertebrate | Experimental | 48 hours | EC50 | 165 mg/l |
| ethyl acetate | 141-78-6 | Green algae | Experimental | 72 hours | NOEC | >100 mg/l |
| ethyl acetate | 141-78-6 | Water flea | Experimental | 21 days | NOEC | 2.4 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|-----------|-------------------------------|----------|-------------------------------|-------------------|-------------------------------------|
| Calcium carbonate | 471-34-1 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| xylene | 1330-20-7 | Experimental Biodegradation | 28 days | BOD | 90-98 %BOD/ThO D | OECD 301F - Manometric respirometry |
| xylene | 1330-20-7 | Experimental Photolysis | | Photolytic half-life (in air) | 1.4 days (t 1/2) | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/CO D | OECD 301F - Manometric respirometry |
| Limestone | 1317-65-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Triiron tetraoxide | 1317-61-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Polyethylene | 9002-88-4 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| ethyl acetate | 141-78-6 | Experimental Biodegradation | 14 days | BOD | 94 %BOD/ThO D | OECD 301C - MITI test (I) |
| ethyl acetate | 141-78-6 | Experimental Photolysis | | Photolytic half-life (in air) | 20.0 days (t 1/2) | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|-----------|---|----------|------------------------|-------------|----------|
| Calcium carbonate | 471-34-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| xylene | 1330-20-7 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 25.9 | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Limestone | 1317-65-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Triiron tetraoxide | 1317-61-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyethylene | 9002-88-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| ethyl acetate | 141-78-6 | Experimental Bioconcentration | | Log Kow | 0.68 | |

12.4. Mobility in soil

No test data available.

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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 01 11* Waste paint and varnish containing organic solvents or other 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 | III | III | III |

| | | | |
|---|--|--|--|
| 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

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|--------------------------|-----------------------|------------------------------|---|
| Polyethylene | 9002-88-4 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| xylene | 1330-20-7 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this 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 Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Industrial Safety and Health Law. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | |
|------------------------|---|-------------------------|
| | Lower-tier requirements | Upper-tier requirements |
| P5c FLAMMABLE LIQUIDS* | 5000 | 50000 |

*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply

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. |
| 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. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

No revision information

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