



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: 10-2686-3
Revision date: 23/09/2025

Version number: 18.02
Supersedes date: 16/06/2025

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

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

1.1. Product identifier

3M Scotch-Weld Metal Primer 3901

Product Identification Numbers

62-3901-3525-9

7000000907

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

Identified uses

Primer

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.

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
Acute Toxicity, Category 3 - Acute Tox. 3; H301

Acute Toxicity, Category 3 - Acute Tox. 3; H311

Acute Toxicity, Category 3 - Acute Tox. 3; H331

Specific Target Organ Toxicity-Single Exposure, Category 1 - STOT SE 1; H370

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) | GHS06 (Skull and crossbones) | GHS08 (Health Hazard) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------|---------|-----------|-----------|
| methanol | 67-56-1 | 200-659-6 | 80 - 99.5 |

HAZARD STATEMENTS:

| | |
|--------------------|---|
| H225 | Highly flammable liquid and vapour. |
| H301 + H311 + H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H370 | Causes damage to organs: sensory organs. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260A | Do not breathe vapours. |
| P280C | Wear protective gloves and protective clothing. |

Response:

| | |
|-------------|--|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. |
| P308 + P311 | IF exposed or concerned: Call a POISON CENTER or doctor/physician. |
| P321 | Specific treatment (see Notes to Physician on this label). |

Storage:

| | |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
|-------------|--|

Notes to Physician:

This product contains methanol. Methanol poisoning can cause metabolic acidosis, blindness, and death. Onset of signs or symptoms may be delayed for 18 to 24 hours. If methanol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208

Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

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] |
|--|---|--------------|---|
| methanol | (CAS-No.) 67-56-1 (EC-No.) 200-659-6 (REACH-No.) 01-2119433307-44 | 80 - 99.5 | Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT SE 1, H370 |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | (CAS-No.) 1760-24-3 (EC-No.) 217-164-6 | < 0.5 | Acute Tox. 4, H332 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 |

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

Specific Concentration Limits

| Ingredient | Identifier(s) | Specific Concentration Limits |
|------------|---|---|
| methanol | (CAS-No.) 67-56-1 (EC-No.) 200-659-6 (REACH-No.) 01-2119433307-44 | (C >= 10%) STOT SE 1, H370 (3% <= C < 10%) STOT SE 2, H371 |

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. Get immediate 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:

Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

This product contains methanol. Methanol poisoning can cause metabolic acidosis, blindness, and death. Onset of signs or symptoms may be delayed for 18 to 24 hours. If methanol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

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**Substance**

formaldehyde
Carbon monoxide
Carbon dioxide.

Condition

During combustion.
During combustion.
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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 water. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. 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.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. 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 |
|-------------------|----------------|---------------|---|----------------------------|
| methanol | 67-56-1 | Ireland OELs | TWA(8 hours):260 mg/m3(200 ppm);TWA(8 hours):200 ppm(260 mg/m3) | SKIN |

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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 supplied-air respirator

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------|----------------|
| Physical state | Liquid. |
| Colour | Red |
| Odor | Strong Solvent |

| | |
|---|--|
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>No data available.</i> |
| Boiling point/boiling range | 64.4 °C |
| Flammability | Flammable Liquid: Category 2. |
| Flammable Limits(LEL) | 6 % volume |
| Flammable Limits(UEL) | 36.5 % volume |
| Flash point | 11.1 °C [<i>Test Method: Closed Cup</i>] |
| 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 | 6.3 mm ² /sec |
| Water solubility | Soluble |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | 12,532.3 Pa |
| Density | 0.8 g/ml |
| Relative density | 0.8 [<i>Ref Std: WATER=1</i>] |
| Relative Vapour Density | 1.1 [<i>Ref Std: AIR=1</i>] |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

5.9 [*Ref Std: ETHER=1*]

Molecular weight

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

Signs and Symptoms of Exposure

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

Inhalation

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

Harmful in contact with skin. Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eye contact

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

Ingestion

Toxic if swallowed.

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

Additional Health Effects:

Single exposure may cause target organ effects:

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

Reproductive/Developmental Toxicity:

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

Additional information:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

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 >1,000 - =2,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >10 - =20 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >50 - =300 mg/kg |
| methanol | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |

3M Scotch-Weld Metal Primer 3901

| | | | |
|--|--------------------------------|--------|-------------------------------------|
| methanol | Inhalation-Vapour | | LC50 estimated to be 10 - 20 mg/l |
| methanol | Ingestion | | LD50 estimated to be 50 - 300 mg/kg |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 >1.49, <2.44 mg/l |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Ingestion | Rat | LD50 1,897 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------|---------------|
| methanol | Rabbit | Mild irritant |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------|-------------------|
| methanol | Rabbit | Moderate irritant |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|--|-------------------------|----------------|
| methanol | Guinea pig | Not classified |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Multiple animal species | Sensitising |

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 |
|--|----------|--|
| methanol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| methanol | In vivo | Some positive data exist, but the data are not sufficient for classification |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | In Vitro | Not mutagenic |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|----------|------------|-------------------------|------------------|
| methanol | Inhalation | Multiple animal species | Not carcinogenic |

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|----------|-----------|--------------------------------------|---------|-----------------------|----------------------|
| methanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,600 mg/kg/day | 21 days |
| methanol | Ingestion | Toxic to development | Mouse | LOAEL 4,000 | during organogenesis |

| | | | | | |
|--|------------|--|-------|---------------------|--------------------------|
| | | | | mg/kg/day | |
| methanol | Inhalation | Toxic to development | Mouse | NOAEL 1.3 mg/l | during organogenesis |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | premating into lactation |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 28 days |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| methanol | Inhalation | blindness | Causes damage to organs | Human | NOAEL Not available | occupational exposure |
| methanol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| methanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 6 hours |
| methanol | Ingestion | blindness | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| methanol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|--|--|---------|-----------------------|-------------------|
| methanol | Inhalation | liver | Not classified | Rat | NOAEL 6.55 mg/l | 4 weeks |
| methanol | Inhalation | respiratory system | Not classified | Rat | NOAEL 13.1 mg/l | 6 weeks |
| methanol | Ingestion | liver nervous system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Dermal | skin endocrine system hematopoietic system kidney and/or bladder | Not classified | Rat | NOAEL 1,545 mg/kg/day | 11 days |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.015 mg/l | 90 days |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Inhalation | hematopoietic system eyes kidney and/or bladder | Not classified | Rat | NOAEL 0.044 mg/l | 90 days |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | Ingestion | hematopoietic system nervous system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |

Aspiration Hazard

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|--|-----------|-------------------------------|--------------|-----------|---------------|---------------------------|
| methanol | 67-56-1 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 16.9 mg/l |
| methanol | 67-56-1 | Bay mussel | Experimental | 96 hours | LC50 | 15,900 mg/l |
| methanol | 67-56-1 | Bluegill | Experimental | 96 hours | LC50 | 15,400 mg/l |
| methanol | 67-56-1 | Green algae | Experimental | 96 hours | ErC50 | 22,000 mg/l |
| methanol | 67-56-1 | Sediment organism | Experimental | 96 hours | LC50 | 54,890 mg/l |
| methanol | 67-56-1 | Water flea | Experimental | 48 hours | LC50 | 3,289 mg/l |
| methanol | 67-56-1 | Green algae | Experimental | 96 hours | NOEC | 9.96 mg/l |
| methanol | 67-56-1 | Medaka | Experimental | 8.33 days | NOEC | 158,000 mg/l |
| methanol | 67-56-1 | Water flea | Experimental | 21 days | NOEC | 122 mg/l |
| methanol | 67-56-1 | Activated sludge | Experimental | 3 hours | IC50 | >1,000 mg/l |
| methanol | 67-56-1 | Barley | Experimental | 14 days | EC50 | 15,492 mg/kg (Dry Weight) |
| methanol | 67-56-1 | Redworm | Experimental | 63 days | EC50 | 26,646 mg/kg (Dry Weight) |
| methanol | 67-56-1 | Springtail | Experimental | 28 days | EC50 | 5,683 mg/kg (Dry Weight) |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Bacteria | Experimental | 16 hours | EC50 | 67 mg/l |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Fathead minnow | Experimental | 96 hours | LC50 | 168 mg/l |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Green algae | Experimental | 72 hours | ErC50 | 8.8 mg/l |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Water flea | Experimental | 48 hours | EC50 | 81 mg/l |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Green algae | Experimental | 72 hours | NOEC | 3.1 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|----------|---------|-----------------------------|----------|------------------|---------------|---------------------------|
| methanol | 67-56-1 | Experimental Biodegradation | 3 days | Percent degraded | 91 %degraded | |
| methanol | 67-56-1 | Experimental Biodegradation | 14 days | BOD | 92 %BOD/ThO D | OECD 301C - MITI test (I) |

| | | | | | | |
|--|-----------|--------------------------------------|---------|--------------------------------|--------------------------------------|-----------------------------|
| methanol | 67-56-1 | Experimental Photolysis | | Photolytic half-life (in air) | 35 days (t 1/2) | |
| methanol | 67-56-1 | Experimental Soil Metabolism Aerobic | 5 days | CO2 evolution | 53.4 %CO2 evolution/THC O2 evolution | |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 39 %removal of DOC | EC C.4.A. DOC Die-Away Test |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 1.5 minutes (t 1/2) | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|-----------|---|----------|------------------------|-------------|----------|
| methanol | 67-56-1 | Experimental BCF - Fish | 3 days | Bioaccumulation factor | <4.5 | |
| methanol | 67-56-1 | Experimental Bioconcentration | | Log Kow | -0.77 | |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|----------|---------|-------------------------------|------------|-------------|----------|
| methanol | 67-56-1 | Experimental Mobility in Soil | Koc | 0.13 l/kg | |

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)

070104* Other organic solvents, washing liquids and mother liquors

14 06 03* Other solvents and solvent mixtures
20 01 13* Solvents

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|--|--|--|
| 14.1 UN number or ID number | UN1230 | UN1230 | UN1230 |
| 14.2 UN proper shipping name | METHANOL | METHANOL | METHANOL |
| 14.3 Transport hazard class(es) | 3(6.1) | 3(6.1) | 3(6.1) |
| 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 | FT1 | 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

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient

methanol

CAS Nbr

67-56-1

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

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 Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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 |
| H2 ACUTE TOXICITY | 50 | 200 |
| H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 50 | 200 |
| 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

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|----------------------|---------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| methanol | 67-56-1 | 500 | 5000 |

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

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

SECTION 16: Other information
List of relevant H statements

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |

| | |
|--------------------|--|
| H301 + H311 + H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H370 | Causes damage to organs. |
| H370 | Causes damage to organs: sensory organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Revision information:

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

Section 03: SCL table information was modified.

Section 08: Personal Protection - Apron Statement information was added.

Section 8: Personal Protection - Skin/body information information was deleted.

Section 8: Skin protection - protective clothing information information was deleted.

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