



Safety Data Sheet

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|---------------------------------------|-------------------|-------------------------|------------|
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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 Scotchkote Poly-Tech EC 661

Product Identification Numbers

GR-2000-9996-2 GR-2001-0518-1

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

Identified uses

Coating.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
Acute Toxicity, Category 4 - Acute Tox. 4; H332
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1B - Skin Sens. 1B; H317
Reproductive Toxicity, Category 2 - Repr. 2; H361
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

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) | GHS09 (Environment) |

Pictograms

| Ingredient | CAS Nbr | % by Wt |
|--|-------------|---------|
| Polypropylene Glycol-Isophorone Diisocyanate copolymer | 39323-37-0 | 10 - 20 |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 | 1 - 10 |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | 5 - 10 |
| Xylene | 1330-20-7 | 5 - 10 |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | 26488-60-8 | 5 - 10 |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | 140921-24-0 | 1 - 5 |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | < 1 |
| p-toluenesulphonyl isocyanate | 4083-64-1 | < 1 |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | 76977-79-2 | < 1 |
| Hexamethylene diisocyanate | 822-06-0 | < 0.1 |
| 2-octyl-2H-isothiazol-3-one | 26530-20-1 | < 0.05 |

HAZARD STATEMENTS:

| | |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS**Prevention:**

| | |
|-------|--|
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours. |
| P284A | In case of inadequate ventilation wear respiratory protection. |
| P280E | Wear protective gloves. |

Response:

| | |
|-------------|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
|-------------|--|

Disposal:

| | |
|------|--|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|--|

19% of the mixture consists of components of unknown acute oral toxicity.
 42% of the mixture consists of components of unknown acute dermal toxicity.

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27% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 29% of components with unknown hazards to the aquatic environment.

EU VOC Directive (2004/42/EC) labelling: 2004/42/EC IIA(iSB)(500)
193 g/l

Notes on labelling

Nota N applied to CAS 64742-46-7.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | EU Inventory | % by Wt | Classification |
|---|----------------|---------------------|----------------|---|
| Dolomite | 16389-88-1 | EINECS 240-440-2 | 30 - 40 | |
| Polypropylene Glycol-Isophorone Diisocyanate copolymer | 39323-37-0 | | 10 - 20 | Skin Sens. 1, H317 (Vendor) |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | EINECS 273-066-3 | 5 - 10 | Repr. 2, H361df (Vendor) |
| 2-ethylhexyl (6-isocyanatohexyl)-carbamate | 26488-60-8 | EINECS 247-735-5 | 5 - 10 | Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Sens. 1B, H317; STOT SE 3, H335 (Self Classified) |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 | NLP 500-125-5 | 1 - 10 | Skin Sens. 1, H317; STOT SE 3, H335 (Self Classified) |
| Xylene | 1330-20-7 | EINECS 215-535-7 | 5 - 10 | Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 - Nota C (CLP) |
| 1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | 140921-24-0 | EINECS 411-700-4 | 1 - 5 | Skin Sens. 1, H317 (CLP) |
| Triphenyl Phosphate | 115-86-6 | EINECS 204-112-2 | 1 - 5 | Aquatic Acute 1, H400,M=1; Aquatic Chronic 2, H411 (Self Classified) |
| Propyl acetate | 109-60-4 | EINECS 203-686-1 | 1 - 5 | Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 - Nota C (CLP) |
| Ethylbenzene | 100-41-4 | EINECS 202-849-4 | 1 - 5 | Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373 (CLP) |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | 76977-79-2 | EINECS 278-583-8 | < 1 | Skin Sens. 1, H317 (Vendor) |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | EINECS 223-861-6 | < 1 | Acute Tox. 1, H330; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 2, H411 - Nota 2 (CLP) |
| p-toluenesulphonyl isocyanate | 4083-64-1 | EINECS 223-810-8 | < 1 | EUH014; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; STOT SE 3, H335 (CLP) |

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| | | | | |
|--|------------|------------------|---------|---|
| | | | | Aquatic Chronic 3, H412 (Self Classified) |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | EINECS 265-148-2 | 0.1 - 1 | Nota N (CLP) Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT SE 3, H336; EUH066 (Self Classified) |
| Terbutryn | 886-50-0 | EINECS 212-950-5 | < 0.1 | Aquatic Acute 1, H400,M=100; Aquatic Chronic 1, H410,M=100 (Self Classified) |
| Hexamethylene diisocyanate | 822-06-0 | EINECS 212-485-8 | < 0.1 | Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1A, H334; Skin Sens. 1A, H317; STOT SE 3, H335 - Nota 2 (CLP) |
| 2-octyl-2H-isothiazol-3-one | 26530-20-1 | EINECS 247-761-7 | < 0.05 | Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 (CLP) |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | EINECS 203-603-9 | < 2 | Flam. Liq. 3, H226 (CLP) |
| Quartz | 14808-60-7 | EINECS 238-878-4 | < 1 | STOT RE 1, H372 (Self Classified) |
| Carbon Black (nano) | 1333-86-4 | EINECS 215-609-9 | < 1 | |

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

Please refer to section 15 for any applicable Notas that have been applied to the above components

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

Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for 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. |
| Hydrogen cyanide. | During combustion. |
| Oxides of nitrogen. | 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.

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 vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. 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 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 |
|---------------------------------|----------------|-------------------------|--|----------------------------|
| Ethylbenzene | 100-41-4 | UK HSC | TWA:441 mg/m3(100 ppm);STEL:552 mg/m3(125 ppm) | Skin Notation |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | UK HSC | TWA:274 mg/m3(50 ppm);STEL:548 mg/m3(100 ppm) | Skin Notation |
| Propyl acetate | 109-60-4 | UK HSC | TWA:849 mg/m3(200 ppm);STEL:1060 mg/m3(250 ppm) | |
| Triphenyl Phosphate | 115-86-6 | UK HSC | TWA:3 mg/m3;STEL:6 mg/m3 | |
| Xylene | 1330-20-7 | UK HSC | TWA:220 mg/m3(50 ppm);STEL:441 mg/m3(100 ppm) | Skin Notation |
| Carbon Black (nano) | 1333-86-4 | UK HSC | TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³ | |
| Quartz | 14808-60-7 | UK HSC | TWA(respirable):0.1 mg/m3 | |
| Free isocyanates | 4098-71-9 | Manufacturer determined | TWA:0.005 ppm;STEL:0.02 ppm | |
| Free isocyanates | 4098-71-9 | UK HSC | TWA(as NCO):0.02 mg/m3;STEL(as NCO):0.07 mg/m3 | Respiratory Sensitizer |
| Free isocyanates | 822-06-0 | Manufacturer determined | TWA:0.005 ppm;STEL:0.02 ppm | |
| Free isocyanates | 822-06-0 | UK HSC | TWA(as NCO):0.02 mg/m3;STEL(as NCO):0.07 mg/m3 | Respiratory Sensitizer |

UK HSC : UK Health and Safety Commission
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: Ceiling

Biological limit values

| Ingredient | CAS Nbr | Agency | Determinant | Biological Specimen | Sampling Time | Value | Additional comments |
|-------------------|----------------|---------------|--------------------|----------------------------|----------------------|--------------|----------------------------|
|-------------------|----------------|---------------|--------------------|----------------------------|----------------------|--------------|----------------------------|

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Xylene 1330- UK EH40 Methyl Creatinine in EOS 650 mmol/mol
20-7 BMGVs hippuric acid urine

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)

EOS: End of shift.

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.

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 |

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------|------------------------------|
| Physical state | Liquid. |
| Specific Physical Form: | Thixotropic liquid. |
| Appearance/Odour | Aromatic odour; Black colour |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Boiling point/boiling range | ≥ 140 °C |
| Melting point | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not applicable. |
| Explosive properties | Not classified |

| | |
|---|--|
| Oxidising properties | Not classified |
| Flash point | ≥ 30 °C [<i>Test Method</i> :Closed Cup] |
| Autoignition temperature | ≥ 315 °C |
| Flammable Limits(LEL) | > 1 % |
| Flammable Limits(UEL) | < 12.6 % |
| Vapour pressure | 1,039.9 Pa [<i>@ 25 °C</i>] [<i>Test Method</i> :Estimated] |
| Relative density | 1.365 [<i>Ref Std</i> :WATER=1] |
| Water solubility | <i>No data available.</i> |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Evaporation rate | <i>No data available.</i> |
| Vapour density | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity | <i>No data available.</i> |
| Density | 1.365 g/ml |

9.2. Other information

| | |
|---|---|
| Volatile organic compounds (VOC) | 193 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Definition] |
| Percent volatile | 14.15 % weight |

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

Temperatures above the boiling point.

Sparks and/or flames.

Heat.

10.5 Incompatible materials

Alcohols.

Combustibles.

Strong acids.

Strong oxidising agents.

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

10.6 Hazardous decomposition products**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 3M assessments.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

Harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

Skin contact

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.

Eye contact

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

Ingestion

May be harmful if swallowed.

Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. 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.

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.

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

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

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|-----------------|----------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE1 - 5 mg/l |

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| | | | |
|--|--------------------------------|--------|--|
| Overall product | Ingestion | | No data available; calculated ATE2,000 - 5,000 mg/kg |
| Dolomite | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Xylene | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.01 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.521 mg/l |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Ingestion | Rat | LD50 > 2,500 mg/kg |
| Triphenyl Phosphate | Dermal | Rabbit | LD50 > 7,900 mg/kg |
| Triphenyl Phosphate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Triphenyl Phosphate | Ingestion | Rat | LD50 > 3,000 mg/kg |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | Dermal | | estimated to be > 5,000 mg/kg |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | Inhalation-Dust/Mist | | estimated to be > 12.5 mg/l |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | Inhalation-Vapor | | estimated to be > 50 mg/l |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | Ingestion | | estimated to be > 5,000 mg/kg |
| Propyl acetate | Dermal | Rabbit | LD50 > 17,760 mg/kg |
| Propyl acetate | Inhalation-Vapor (4 hours) | Rat | LC50 < 3.4 mg/l |
| Propyl acetate | Ingestion | Rat | LD50 > 8,700 mg/kg |
| Ethylbenzene | Dermal | Rabbit | LD50 15,433 mg/kg |
| Ethylbenzene | Inhalation-Vapor (4 hours) | Rat | LC50 17.4 mg/l |
| Ethylbenzene | Ingestion | Rat | LD50 4,769 mg/kg |
| 2-Methoxy-1-methylethyl acetate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 2-Methoxy-1-methylethyl acetate | Inhalation-Vapor (4 hours) | Rat | LC50 > 28.8 mg/l |
| 2-Methoxy-1-methylethyl acetate | Ingestion | Rat | LD50 8,532 mg/kg |
| Distillates (petroleum), hydrotreated middle | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Distillates (petroleum), hydrotreated middle | Inhalation-Dust/Mist (4 hours) | Rat | LC50 4.6 mg/l |
| Distillates (petroleum), hydrotreated middle | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Carbon Black (nano) | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black (nano) | Ingestion | Rat | LD50 > 8,000 mg/kg |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Dermal | Rat | LD50 > 7,000 mg/kg |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.03 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Ingestion | Rat | LD50 4,815 mg/kg |
| Quartz | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Hexamethylene diisocyanate | Dermal | Rabbit | LD50 570 mg/kg |
| Hexamethylene diisocyanate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.12 mg/l |
| Hexamethylene diisocyanate | Ingestion | Rat | LD50 710 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

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| Name | Species | Value |
|--|------------------------|---------------------------|
| Xylene | Rabbit | Mild irritant |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Rabbit | No significant irritation |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Rabbit | Mild irritant |
| Ethylbenzene | Rabbit | Mild irritant |
| 2-Methoxy-1-methylethyl acetate | Rabbit | No significant irritation |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | Professional judgement | Mild irritant |
| Distillates (petroleum), hydrotreated middle | Rabbit | Minimal irritation |
| Carbon Black (nano) | Rabbit | No significant irritation |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Rabbit | Corrosive |
| Quartz | Professional judgement | No significant irritation |
| Hexamethylene diisocyanate | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------------|---------------------------|
| Xylene | Rabbit | Mild irritant |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Rabbit | Mild irritant |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Rabbit | No significant irritation |
| Ethylbenzene | Rabbit | Moderate irritant |
| 2-Methoxy-1-methylethyl acetate | Rabbit | Mild irritant |
| Distillates (petroleum), hydrotreated middle | Not available | Mild irritant |
| Carbon Black (nano) | Rabbit | No significant irritation |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Rabbit | Corrosive |
| Hexamethylene diisocyanate | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|--|-------------------------|-----------------|
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Guinea pig | Sensitising |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Mouse | Sensitising |
| Ethylbenzene | Human | Not sensitising |
| 2-Methoxy-1-methylethyl acetate | Guinea pig | Not sensitising |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | | Sensitising |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Guinea pig | Sensitising |
| Hexamethylene diisocyanate | Multiple animal species | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|---|------------------|-------------|
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | | Sensitising |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Human | Sensitising |
| Hexamethylene diisocyanate | Human and animal | Sensitising |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|---------------|
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | In Vitro | Not mutagenic |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | In Vitro | Not mutagenic |

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| | | |
|---|----------|--|
| Ethylbenzene | In vivo | Not mutagenic |
| Ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-Methoxy-1-methylethyl acetate | In Vitro | Not mutagenic |
| Distillates (petroleum), hydrotreated middle | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black (nano) | In Vitro | Not mutagenic |
| Carbon Black (nano) | In vivo | Some positive data exist, but the data are not sufficient for classification |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | In vivo | Not mutagenic |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Hexamethylene diisocyanate | In Vitro | Not mutagenic |
| Hexamethylene diisocyanate | 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 |
| Ethylbenzene | Inhalation | Multiple animal species | Carcinogenic. |
| Distillates (petroleum), hydrotreated middle | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black (nano) | Dermal | Mouse | Not carcinogenic |
| Carbon Black (nano) | Ingestion | Mouse | Not carcinogenic |
| Carbon Black (nano) | Inhalation | Rat | Carcinogenic. |
| Quartz | Inhalation | Human and animal | Carcinogenic. |
| Hexamethylene diisocyanate | Inhalation | Rat | Not carcinogenic |

Reproductive Toxicity
Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---------------------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| Xylene | Ingestion | Not toxic to female reproduction | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene | Ingestion | Not toxic to male reproduction | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene | Inhalation | Some positive female reproductive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Xylene | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | during organogenesis |
| Xylene | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | during gestation |
| Ethylbenzene | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 4.3 mg/l | prematuring & during gestation |
| 2-Methoxy-1-methylethyl acetate | Ingestion | Not toxic to female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-Methoxy-1-methylethyl acetate | Ingestion | Not toxic to male reproduction | Rat | NOAEL | prematuring & |

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| | | | | | |
|---|------------|--|-----|-----------------------|--------------------------------|
| | | | | 1,000 mg/kg/day | during gestation |
| 2-Methoxy-1-methylethyl acetate | Ingestion | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-Methoxy-1-methylethyl acetate | Inhalation | Not toxic to development | Rat | NOAEL 21.6 mg/l | during organogenesis |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation | Not toxic to female reproduction | Rat | NOAEL 0.004 mg/l | during gestation |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation | Not toxic to male reproduction | Rat | NOAEL 0.004 mg/l | 4 weeks |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 0.001 mg/l | during gestation |
| Hexamethylene diisocyanate | Inhalation | Not toxic to female reproduction | Rat | NOAEL 0.002 mg/l | 7 weeks |
| Hexamethylene diisocyanate | Inhalation | Not toxic to development | Rat | NOAEL 0.002 mg/l | 7 weeks |
| Hexamethylene diisocyanate | Inhalation | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.014 mg/l | 4 weeks |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|--|
| Xylene | Ingestion | Mouse | Does not cause 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 |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| 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 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 3.5 mg/l | not available |
| Xylene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | 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 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg | not applicable |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | Inhalation | respiratory irritation | May cause respiratory irritation | Professional judgement | NOAEL Not available | |
| Ethylbenzene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Ethylbenzene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| 2-Methoxy-1-methylethyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Distillates (petroleum), | Inhalation | central nervous | Some positive data exist, but the | Not | NOAEL NA | |

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|---|------------|--|--|------------------|---------------------|-----------------------|
| hydrotreated middle | | system depression respiratory irritation | data are not sufficient for classification | available | | |
| Distillates (petroleum), hydrotreated middle | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Not available | NOAEL NA | |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Dermal | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 7,000 mg/kg | 24 hours |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | NOAEL 0.00025 mg/l | 4 weeks |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL Not available | not applicable |
| Hexamethylene diisocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| Hexamethylene diisocyanate | Inhalation | blood | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------|------------|--|--|-------------------------|-----------------------|-------------------|
| 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 | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | |
| Xylene | Inhalation | heart endocrine system hematopoietic system muscles kidney and/or bladder respiratory system | All data are negative | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Xylene | Ingestion | auditory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | 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 | All data are negative | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Ethylbenzene | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 2 years |
| Ethylbenzene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 3.4 mg/l | 28 days |
| Ethylbenzene | Inhalation | auditory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 2.4 mg/l | 5 days |

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|---|------------|--|--|-------------------------|-----------------------|-----------------------|
| Ethylbenzene | Inhalation | endocrine system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | All data are negative | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| Ethylbenzene | Inhalation | heart immune system respiratory system | All data are negative | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 680 mg/kg/day | 6 months |
| 2-Methoxy-1-methylethyl acetate | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 16.2 mg/l | 9 days |
| 2-Methoxy-1-methylethyl acetate | Inhalation | olfactory system | Some positive data exist, but the data are not sufficient for classification | Mouse | LOAEL 1.62 mg/l | 9 days |
| 2-Methoxy-1-methylethyl acetate | Inhalation | blood | All data are negative | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
| 2-Methoxy-1-methylethyl acetate | Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| Carbon Black (nano) | Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | Inhalation | blood | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.00025 mg/l | 4 weeks |
| Quartz | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Hexamethylene diisocyanate | Inhalation | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.002 mg/l | 3 weeks |
| Hexamethylene diisocyanate | Inhalation | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.0014 mg/l | 4 weeks |
| Hexamethylene diisocyanate | Inhalation | blood | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.0012 mg/l | 2 years |
| Hexamethylene diisocyanate | Inhalation | nervous system | All data are negative | Rat | NOAEL 0.002 mg/l | 7 weeks |
| Hexamethylene diisocyanate | Inhalation | heart | All data are negative | Rat | NOAEL 0.001 mg/l | 90 days |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| Xylene | Aspiration hazard |
| Ethylbenzene | Aspiration hazard |
| Distillates (petroleum), hydrotreated middle | Aspiration hazard |

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

SECTION 12: Ecological information

The information below may not 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

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No product test data available.

| Material | CAS Nbr | Organism | Type | Exposure | Test endpoint | Test result |
|---|------------|----------------------|--------------|----------|---------------|-------------|
| Terbutryn | 886-50-0 | Green algae | Experimental | 72 hours | EC50 | 0.003 mg/l |
| Terbutryn | 886-50-0 | Rainbow trout | Experimental | 96 hours | LC50 | 0.82 mg/l |
| Terbutryn | 886-50-0 | Water flea | Experimental | 48 hours | EC50 | 7.1 mg/l |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | Water flea | Experimental | 48 hours | EC50 | 373 mg/l |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | Fathead minnow | Experimental | 96 hours | LC50 | 161 mg/l |
| Dolomite | 16389-88-1 | Western Mosquitofish | Experimental | 24 hours | LC50 | 56,000 mg/l |
| Ethylbenzene | 100-41-4 | Green Algae | Experimental | 96 hours | EC50 | 3.6 mg/l |
| Ethylbenzene | 100-41-4 | Water flea | Experimental | 24 hours | EC50 | 1.81 mg/l |
| Ethylbenzene | 100-41-4 | Rainbow trout | Experimental | 96 hours | LC50 | 4.2 mg/l |
| Hexamethylene diisocyanate | 822-06-0 | Green algae | Experimental | 72 hours | EC50 | 15 mg/l |
| Hexamethylene diisocyanate | 822-06-0 | Water flea | Experimental | 48 hours | EC50 | 27 mg/l |
| Hexamethylene diisocyanate | 822-06-0 | Ricefish | Experimental | 96 hours | LC50 | 71 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Green algae | Estimated | 72 hours | EC50 | >50 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Water flea | Estimated | 48 hours | EC50 | 17.4 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Golden Orfe | Estimated | 96 hours | LC50 | 110 mg/l |
| Propyl acetate | 109-60-4 | Fathead minnow | Experimental | 96 hours | LC50 | 56 mg/l |
| Propyl acetate | 109-60-4 | Water flea | Experimental | 24 hours | EC50 | 318 mg/l |
| 2-octyl-2H-isothiazol-3-one | 26530-20-1 | Rainbow trout | Experimental | 96 hours | LC50 | 0.047 mg/l |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | Fathead minnow | Estimated | 96 hours | LC50 | 3.08 mg/l |
| p-toluenesulphonyl isocyanate | 4083-64-1 | Ricefish | Experimental | 96 hours | LC50 | 435 mg/l |
| p- | 4083-64-1 | Water flea | Experimental | 24 hours | EC50 | 150 mg/l |

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| | | | | | | |
|--|-------------|----------------|---|----------|--------------------------|------------|
| toluenesulphonyl isocyanate | | | | | | |
| p-toluenesulphonyl isocyanate | 4083-64-1 | Green Algae | Experimental | 72 hours | EC50 | 23 mg/l |
| Triphenyl Phosphate | 115-86-6 | Rainbow trout | Experimental | 96 hours | LC50 | 0.85 mg/l |
| Triphenyl Phosphate | 115-86-6 | Water flea | Experimental | 48 hours | EC50 | 1 mg/l |
| Triphenyl Phosphate | 115-86-6 | Green algae | Experimental | 72 hours | EC50 | 4 mg/l |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | Water flea | Experimental | 21 days | NOEC | >=100 mg/l |
| Hexamethylene diisocyanate | 822-06-0 | Green Algae | Experimental | 72 hours | NOEC | 10 mg/l |
| Hexamethylene diisocyanate | 822-06-0 | Water flea | Experimental | 21 days | NOEC | 4.2 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Green algae | Estimated | 72 hours | Effect Concentration 10% | 11.2 mg/l |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Water flea | Estimated | 21 days | NOEC | 3 mg/l |
| p-toluenesulphonyl isocyanate | 4083-64-1 | Water flea | Experimental | 21 days | NOEC | 47 mg/l |
| Triphenyl Phosphate | 115-86-6 | Water flea | Experimental | 21 days | NOEC | 0.25 mg/l |
| Triphenyl Phosphate | 115-86-6 | Green algae | Experimental | 72 hours | NOEC | 0.98 mg/l |
| Triphenyl Phosphate | 115-86-6 | Fathead minnow | Experimental | 90 days | NOEC | 0.087 mg/l |
| 2-ethylhexyl (6-isocyanatohexyl)-carbamate | 26488-60-8 | | Data not available or insufficient for classification | | | |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | 76977-79-2 | | Data not available or insufficient for classification | | | |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | 140921-24-0 | | Data not available or insufficient for classification | | | |
| Carbon Black | 1333-86-4 | | Data not | | | |

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| | | | | | | |
|---|------------|--|---|--|--|--|
| (nano) | | | available or insufficient for classification | | | |
| 3-Isocyanatohexyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 | | Data not available or insufficient for classification | | | |
| Polypropylene Glycol-Isophorone Diisocyanate copolymer | 39323-37-0 | | Data not available or insufficient for classification | | | |
| Quartz | 14808-60-7 | | Data not available or insufficient for classification | | | |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | | Data not available or insufficient for classification | | | |
| Xylene | 1330-20-7 | | Data not available or insufficient for classification | | | |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|-------------------------------|---------------------|---------------|
| Ethylbenzene | 100-41-4 | Experimental Photolysis | | Photolytic half-life (in air) | 4.26 days (t 1/2) | Other methods |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | Estimated Photolysis | | Photolytic half-life (in air) | 2.45 days (t 1/2) | Other methods |
| Polypropylene Glycol-Isophorone Diisocyanate copolymer | 39323-37-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Triphenyl Phosphate | 115-86-6 | Experimental Hydrolysis | | Hydrolytic half-life | 19 days (t 1/2) | Other methods |
| Hexamethylene diisocyanate | 822-06-0 | Experimental Hydrolysis | | Hydrolytic half-life | 5 minutes (t 1/2) | Other methods |
| 2-octyl-2H-isothiazol-3-one | 26530-20-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| p-toluenesulphonyl isocyanate | 4083-64-1 | Estimated Hydrolysis | | Hydrolytic half-life | <10 minutes (t 1/2) | Other methods |
| Carbon Black (nano) | 1333-86-4 | Data not available or | N/A | N/A | N/A | N/A |

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| | | | | | | |
|--|-------------|---|---------|--------------------------------|---------------|-------------------------------------|
| | | insufficient for classification | | | | |
| Dolomite | 16389-88-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | Experimental Biodegradation | 26 days | Dissolv. Organic Carbon Deplet | 94.3 % weight | OECD 301A - DOC Die Away Test |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | 76977-79-2 | Estimated Biodegradation | 28 days | BOD | 1 % weight | OECD 301F - Manometric respirometry |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | 140921-24-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | Experimental Biodegradation | 28 days | BOD | 87.2 % weight | OECD 301C - MITI test (I) |
| Terbutryn | 886-50-0 | Estimated Biodegradation | 28 days | CO2 evolution | 0 % weight | OECD 301B - Modified sturm or CO2 |
| Triphenyl Phosphate | 115-86-6 | Experimental Biodegradation | 28 days | BOD | 90 % weight | OECD 301C - MITI test (I) |
| 3-Isocyanatomet hyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9 | Estimated Biodegradation | 28 days | BOD | 0 % weight | OECD 301C - MITI test (I) |
| Quartz | 14808-60-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-ethylhexyl (6-isocyanatoethyl)-carbamate | 26488-60-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hexamethylene diisocyanate | 822-06-0 | Experimental Biodegradation | 14 days | BOD | 55.5 % weight | OECD 301C - MITI test (I) |
| Propyl acetate | 109-60-4 | Experimental Biodegradation | 14 days | BOD | 81 % weight | OECD 301C - MITI test (I) |
| Ethylbenzene | 100-41-4 | Laboratory Biodegradation | 14 days | BOD | 81 % weight | Other methods |
| 3-Isocyanatomet hyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| p- | 4083-64-1 | Experimental | 28 days | BOD | 3 % weight | OECD 301C - MITI |

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| | | | | | | |
|-----------------------------|-----------|---|-----|-----|-----|----------|
| toluenesulphonyl isocyanate | | Biodegradation | | | | test (I) |
| Xylene | 1330-20-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|-------------|---|----------|------------------------|-------------|------------------------------------|
| Dolomite | 16389-88-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Xylene | 1330-20-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polypropylene Glycol-Isophorone Diisocyanate copolymer | 39323-37-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate | 140921-24-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Quartz | 14808-60-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-ethylhexyl (6-isocyanatohexyl)-carbamate | 26488-60-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 3-Isocyanatohexyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | 53880-05-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Carbon Black (nano) | 1333-86-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 | Estimated Bioconcentration | | Bioaccumulation factor | 13.4 | Estimated: Bioconcentration factor |
| bis(2-ethylhexyl) 1,6-hexan-1,6-diylbiscarbamate | 76977-79-2 | Estimated Bioconcentration | | Bioaccumulation factor | 246 | Estimated: Bioconcentration factor |

3M Scotchkote Poly-Tech EC 661

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| te | | | | | | |
| Terbutryn | 886-50-0 | Estimated Bioconcentration | | Bioaccumulation factor | 174 | Estimated: Bioconcentration factor |
| Triphenyl Phosphate | 115-86-6 | Experimental BCF - Rainbow Tr | 90 days | Bioaccumulation factor | 271 | Other methods |
| Hexamethylene diisocyanate | 822-06-0 | Estimated Bioconcentration | | Bioaccumulation factor | 158 | Estimated: Bioconcentration factor |
| 2-octyl-2H-isothiazol-3-one | 26530-20-1 | Experimental BCF - Bluegill | 67 days | Bioaccumulation factor | 165 | Other methods |
| Ethylbenzene | 100-41-4 | Experimental BCF - Other | | Bioaccumulation factor | 15 | Other methods |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | Experimental Bioconcentration | | Log Kow | 0.36 | Other methods |
| Propyl acetate | 109-60-4 | Experimental Bioconcentration | | Log Kow | 1.24 | Other methods |
| p-toluenesulphonyl isocyanate | 4083-64-1 | Experimental Bioconcentration | | Log Kow | 0.82 | Other methods |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | Estimated Bioconcentration | | Log Kow | 4.61 | Estimated: Octanol-water partition coefficient |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

See Section 11.1 Information on toxicological effects

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

GR-2000-9996-2

ADR/RID: UN1263, PAINT RELATED MATERIAL, 3., III, (D/E), ADR Classification Code: F1.**IMDG-CODE:** UN1263, PAINT RELATED MATERIAL, 3, III, IMDG-Code segregation code: NONE, EMS: FE,SE.**ICAO/IATA:** UN1263, PAINT RELATED MATERIAL, 3., III.

GR-2001-0518-1

ADR/RID: UN1263, PAINT RELATED MATERIAL, 3., III, (D/E), ADR Classification Code: F1.**IMDG-CODE:** UN1263, PAINT RELATED MATERIAL, 3, III, IMDG-Code segregation code: NONE, EMS: FE,SE.**ICAO/IATA:** UN1263, PAINT RELATED MATERIAL, 3., III.**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> |
|---------------------|----------------|--------------------------------|---|
| Carbon Black (nano) | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Ethylbenzene | 100-41-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Quartz | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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 China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

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

| | |
|--------|---|
| EUH014 | Reacts violently with water. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |

| | |
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| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361df | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Revision Changes:

Section 8: Eye/face protection information information was modified.
Section 8: Respiratory protection - recommended respirators information information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Biocumulative potential information information was modified.
Label: CLP Classification information was modified.
Label: CLP Classification information was modified.
Label: CLP Percent Unknown information was modified.
Label: CLP Percent Unknown information was modified.
Label: CLP Percent Unknown information was modified.
Label: Graphic information was modified.
Label: Symbol information was modified.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was modified.
CLP: Ingredient table information was modified.
Section 3: Reference to section 15 for Nota info information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Health Effects - Eye information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 6: Accidental release personal information information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 7: Precautions safe handling information information was modified.
Section 7: Conditions safe storage information was modified.
Section 4: First aid for ingestion (swallowing) information information was modified.
Section 8: glove data value information was modified.
Section 2: EU VOC Directive (2004/42/EC) heading information was added.
Section 02: EU VOC Directive (2004/42/EC) labelling information was added.
Section 02: EU VOC Directive (2004/42/EC) labelling information was added.
Section 03: Reference to H statement explanation in Section 016 information was added.
Risk phrase information was deleted.

Safety phrase information was deleted.
Section 2: Contains heading information was deleted.
Section 2: Safety phrases heading information was deleted.
Section 16: List of relevant R-phrases information was deleted.
Section 2: Label ingredient information information was deleted.
Section 2: Indication of danger heading information was deleted.
Section 16: List of relevant R phrase information information was deleted.
Section 2: Risk phrases heading information was deleted.
Section 2: Indication of danger information information was deleted.
Section 2: Notes on labelling heading information was deleted.
Section 2: Special provisions concerning the labelling of certain substances heading information was deleted.
Section 2: Label remarks information was deleted.
Section 2: Additional label requirements phrase information was deleted.
Section 3: Reference to R and H statement explanation in Section 16 information was deleted.
Section 2: 2.2 & 2.3. DSD/DPD heading information was deleted.
Label: Graphic Text information was deleted.
Section 2: R phrase reference information was deleted.
Label: Graphic information was deleted.
Label: Graphic information was deleted.
Label: Graphic Text information was deleted.
Section 8: glove data value 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.

3M United Kingdom MSDSs are available at www.3M.com/uk