



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006) as amended by Regulation (EU) 2020/878

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

1.1. Product identifier

3M™ Scotch-Weld™ Neoprene High Performance Rubber and Gasket Adhesive EC-1300L, Yellow

Product Identification Numbers

62-1403-6543-8

7000028564

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

Identified uses

Product

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 D0V2NO, 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.

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

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Reproductive Toxicity, Category 2 - Repr. 2; H361fd
 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
 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



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|----------|-----------|---------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | | 924-168-8 | 30 - 40 |
| butanone | 78-93-3 | 201-159-0 | 20 - 25 |
| toluene | 108-88-3 | 203-625-9 | 4 - 9.5 |

HAZARD STATEMENTS:

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260A | Do not breathe vapours. |
| P273 | Avoid release to the environment. |
| P280K | Wear protective gloves and respiratory protection. |

Response:

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |
|--------------------|--|

P370 + P378 present and easy to do. Continue rinsing.
 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208 Contains rosin. May produce an allergic reaction.

Contains 25% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Contains a substance identified as an endocrine disrupter in the list established in accordance with REACH Article 59(1)
 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] |
|---|--|---------|---|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | (EC-No.) 924-168-8 | 30 - 40 | Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 |
| butanone | (CAS-No.) 78-93-3 (EC-No.) 201-159-0 (REACH-No.) 01-2119457290-43 | 20 - 25 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | (CAS-No.) 68037-42-3 | 15 - 20 | Substance not classified as hazardous |
| Polychloroprene | (CAS-No.) 9010-98-4 | 5 - 15 | Substance not classified as hazardous |
| toluene | (CAS-No.) 108-88-3 (EC-No.) 203-625-9 (REACH-No.) 01-2119471310-51 | 4 - 9.5 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| acetone | (CAS-No.) 67-64-1 (EC-No.) 200-662-2 | < 2.5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| zinc oxide | (CAS-No.) 1314-13-2 (EC-No.) 215-222-5 | < 1 | Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |

| | | | |
|--------------------|---|--------|---|
| | (REACH-No.) 01-2119463881-32 | | |
| rosin | (CAS-No.) 8050-09-7 (EC-No.) 232-475-7 | < 1 | Skin Sens. 1B, H317 |
| ethylbenzene | (CAS-No.) 100-41-4 (EC-No.) 202-849-4 | < 0.5 | Flam. Liq. 2, H225 Acute Tox. 4, H332 Asp. Tox. 1, H304 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| 4-tert-butylphenol | (CAS-No.) 98-54-4 (EC-No.) 202-679-0 | < 0.25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f Aquatic Chronic 1, H410,M=1 |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

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

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

Irritation to the skin (localized redness, swelling, itching, and dryness). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|-------------------|--------------------|
| Aldehydes. | During combustion. |
| Hydrocarbons. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Hydrogen Chloride | During combustion. |
| Ketones. | 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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust 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.

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. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from 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 | Ireland OELs | TWA(8 hours):442 mg/m ³ (100 ppm);TWA(8 hours):100 ppm(442 mg/m ³);STEL(15 minutes):884 mg/m ³ (200 ppm);STEL(15 minutes):200 ppm(884 mg/m ³) | SKIN |
| toluene | 108-88-3 | Ireland OELs | TWA(8 hours):192 mg/m ³ (50 ppm);TWA(8 hours):50 ppm(192 mg/m ³);STEL(15 minutes):384 mg/m ³ (100 ppm);STEL(15 minutes):100 ppm(384 mg/m ³) | SKIN |
| zinc oxide | 1314-13-2 | Ireland OELs | TWA(Respirable fraction & fume)(8 hours):2 mg/m ³ ;STEL(Respirable fraction & fume)(15 minutes):10 mg/m ³ | |
| acetone | 67-64-1 | Ireland OELs | TWA(8 hours):1210 mg/m ³ (500 ppm);TWA(8 hours):500 ppm(1210 mg/m ³) | |
| butanone | 78-93-3 | Ireland OELs | TWA(8 hours):600 mg/m ³ (200 ppm);TWA(8 hours):200 ppm(600 mg/m ³);STEL(15 minutes):900 mg/m ³ (300 ppm);STEL(15 minutes):300 ppm(900 mg/m ³) | SKIN |
| Rosin core solder pyrolysis products | 8050-09-7 | Ireland OELs | TWA(8 hours):0.05 mg/m ³ ;STEL(15 minutes):0.15 mg/m ³ | AIR, total respirable |

Ireland OELs : Ireland. OELs

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

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

Derived no effect level (DNEL)

| Ingredient | Degradation Product | Population | Human exposure pattern | DNEL |
|------------|---------------------|------------|--|-----------------------|
| toluene | | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 384 mg/kg bw/d |
| toluene | | Worker | Inhalation, Long-term exposure (8 hours), Local effects | 192 mg/m ³ |
| toluene | | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 192 mg/m ³ |
| toluene | | Worker | Inhalation, Short-term exposure, Local effects | 384 mg/m ³ |
| toluene | | Worker | Inhalation, Short-term exposure, Systemic effects | 384 mg/m ³ |

Predicted no effect concentrations (PNEC)

| Ingredient | Degradation Product | Compartment | PNEC |
|------------|---------------------|------------------------|-----------------|
| toluene | | Agricultural soil | 2.89 mg/kg d.w. |
| toluene | | Freshwater | 0.68 mg/l |
| toluene | | Sewage Treatment Plant | 13.61 mg/l |

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

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

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

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 16321

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 air-purifying respirator suitable for organic vapours and particulates
Organic vapor cartridges may have short service life.

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

Applicable Norms/Standards

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

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | Liquid. |
| Colour | Yellow |
| Odor | Strong Solvent |
| Odour threshold | No data available. |
| Melting point/freezing point | No data available. |
| Boiling point/boiling range | 60 °C |
| Flammability | Flammable Liquid: Category 2. |
| Flammable Limits(LEL) | 1 % |
| Flammable Limits(UEL) | 11.5 % |
| Flash point | -25.6 °C [Test Method:Closed Cup] |
| Autoignition temperature | No data available. |
| Decomposition temperature | No data available. |
| pH | substance/mixture is non-soluble (in water) |
| Kinematic Viscosity | 767 mm ² /sec |
| Water solubility | Negligible |
| Solubility- non-water | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Vapour pressure | 120 mm Hg [@ 68 °F] |

| | |
|---------------------------------|---------------------------|
| Density | <i>No data available.</i> |
| Relative density | 0.88 [Ref Std:WATER=1] |
| Relative Vapour Density | 3 [Ref Std:AIR=1] |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|--------------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate | >=2.5 [Ref Std:ETHER=1] |
| Molecular weight | <i>No data available.</i> |
| Percent volatile | 80.5 % 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

Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

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

Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

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

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

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

Prolonged or repeated exposure may cause target organ effects:

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

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|-----------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Dermal | Rat | LD50 > 2,800 mg/kg |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation-Vapour (4 hours) | Rat | LC50 > 25.2 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Ingestion | Rat | LD50 > 5,840 mg/kg |
| butanone | Dermal | Rabbit | LD50 > 8,050 mg/kg |
| butanone | Inhalation-Vapour (4 hours) | Rat | LC50 34.5 mg/l |
| butanone | Ingestion | Rat | LD50 2,737 mg/kg |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |

| | | | |
|--------------------|--------------------------------|--------|------------------------------------|
| Polychloroprene | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Polychloroprene | Ingestion | Rat | LD50 > 20,000 mg/kg |
| toluene | Dermal | Rat | LD50 12,000 mg/kg |
| toluene | Inhalation-Vapour (4 hours) | Rat | LC50 30 mg/l |
| toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| acetone | Inhalation-Vapour (4 hours) | Rat | LC50 76 mg/l |
| acetone | Ingestion | Rat | LD50 5,800 mg/kg |
| zinc oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| zinc oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| zinc oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| rosin | Dermal | Rabbit | LD50 > 2,500 mg/kg |
| rosin | Ingestion | Rat | LD50 7,600 mg/kg |
| ethylbenzene | Dermal | Rabbit | LD50 15,433 mg/kg |
| ethylbenzene | Inhalation-Vapour (4 hours) | Rat | LC50 17.4 mg/l |
| ethylbenzene | Ingestion | Rat | LD50 4,769 mg/kg |
| 4-tert-butylphenol | Dermal | Rabbit | LD50 2,318 mg/kg |
| 4-tert-butylphenol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.6 mg/l |
| 4-tert-butylphenol | Ingestion | Rat | LD50 4,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|------------------|---------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Rabbit | Irritant |
| butanone | Rabbit | Minimal irritation |
| Polychloroprene | Human | No significant irritation |
| toluene | Rabbit | Irritant |
| acetone | Mouse | Minimal irritation |
| zinc oxide | Human and animal | No significant irritation |
| rosin | Rabbit | No significant irritation |
| ethylbenzene | Rabbit | Mild irritant |
| 4-tert-butylphenol | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Rabbit | Mild irritant |
| butanone | Rabbit | Severe irritant |
| Polychloroprene | Professional judgement | No significant irritation |
| toluene | Rabbit | Moderate irritant |
| acetone | Rabbit | Severe irritant |
| zinc oxide | Rabbit | Mild irritant |
| rosin | Rabbit | Mild irritant |
| ethylbenzene | Rabbit | Moderate irritant |
| 4-tert-butylphenol | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|---|------------------|----------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Guinea pig | Not classified |
| toluene | Guinea pig | Not classified |
| zinc oxide | Guinea pig | Not classified |
| rosin | Guinea pig | Sensitising |
| ethylbenzene | Human | Not classified |
| 4-tert-butylphenol | Human and animal | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------|----------|--|
| butanone | In Vitro | Not mutagenic |
| toluene | In Vitro | Not mutagenic |
| toluene | In vivo | Not mutagenic |
| acetone | In vivo | Not mutagenic |
| acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| zinc oxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| zinc oxide | In vivo | Some positive data exist, but the data are not sufficient for classification |
| ethylbenzene | In vivo | Not mutagenic |
| ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4-tert-butylphenol | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------|----------------|-------------------------|--|
| butanone | Inhalation | Human | Not carcinogenic |
| toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| toluene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| toluene | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| acetone | Not specified. | Multiple animal species | Not carcinogenic |
| ethylbenzene | Inhalation | Multiple animal species | Carcinogenic. |
| 4-tert-butylphenol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---------------------------------|-----------|----------------------------|---------|-------------|-------------------|
| Hydrocarbons, C6-C7, n-alkanes, | Ingestion | Toxic to male reproduction | similar | NOAEL Not | not available |

| | | | | | |
|---|------------|--|-------------------------|-----------------------|--------------------------------|
| isoalkanes, cyclics, >5% n-hexane | | | compounds | available | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | Toxic to male reproduction | similar compounds | NOAEL Not available | not available |
| butanone | Inhalation | Not classified for development | Rat | LOAEL 8.8 mg/l | during gestation |
| toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| acetone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,700 mg/kg/day | 13 weeks |
| acetone | Inhalation | Not classified for development | Rat | NOAEL 5.2 mg/l | during organogenesis |
| zinc oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | prematuring & during gestation |
| ethylbenzene | Inhalation | Not classified for development | Rat | NOAEL 4.3 mg/l | prematuring & during gestation |
| 4-tert-butylphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 600 mg/kg/day | 2 generation |
| 4-tert-butylphenol | Ingestion | Not classified for development | Rat | NOAEL 70 mg/kg/day | 2 generation |
| 4-tert-butylphenol | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | similar compounds | NOAEL Not available | not available |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | similar compounds | NOAEL Not available | not available |
| butanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | official classification | NOAEL Not available | |
| butanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| butanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | not applicable |
| butanone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 1,080 mg/kg | not applicable |
| toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| toluene | Ingestion | central nervous | May cause drowsiness or | Human | NOAEL Not | poisoning |

| | | system depression | dizziness | | available | and/or abuse |
|--------------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| acetone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 hours |
| acetone | Inhalation | liver | Not classified | Guinea pig | NOAEL Not available | |
| acetone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| 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 | |
| ethylbenzene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 4-tert-butylphenol | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | LOAEL 5.6 mg/l | 4 hours |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|--|--|-------------------------|---------------------|------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | peripheral nervous system | May cause damage to organs though prolonged or repeated exposure | similar compounds | NOAEL Not available | not available |
| butanone | Dermal | nervous system | Not classified | Guinea pig | NOAEL Not available | 31 weeks |
| butanone | Inhalation | liver kidney and/or bladder heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | 7 days |
| butanone | Ingestion | nervous system | Not classified | Rat | NOAEL 173 mg/kg/day | 90 days |
| toluene | Inhalation | auditory system nervous system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| toluene | Ingestion | nervous system | Some positive data exist, but the | Rat | NOAEL 625 | 13 weeks |

| | | | | | | |
|--------------|------------|---|--|-------------------------|------------------------|---------------|
| | | | data are not sufficient for classification | | mg/kg/day | |
| toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| acetone | Dermal | eyes | Not classified | Guinea pig | NOAEL Not available | 3 weeks |
| acetone | Inhalation | hematopoietic system | Not classified | Human | NOAEL 3 mg/l | 6 weeks |
| acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 days |
| acetone | Inhalation | kidney and/or bladder | Not classified | Guinea pig | NOAEL 119 mg/l | not available |
| acetone | Inhalation | heart liver | Not classified | Rat | NOAEL 45 mg/l | 8 weeks |
| acetone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 900 mg/kg/day | 13 weeks |
| acetone | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| acetone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| acetone | Ingestion | liver | Not classified | Mouse | NOAEL 3,896 mg/kg/day | 14 days |
| acetone | Ingestion | eyes | Not classified | Rat | NOAEL 3,400 mg/kg/day | 13 weeks |
| acetone | Ingestion | respiratory system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| acetone | Ingestion | muscles | Not classified | Rat | NOAEL 2,500 mg/kg | 13 weeks |
| acetone | Ingestion | skin bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| zinc oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 10 days |
| zinc oxide | Ingestion | endocrine system hematopoietic system kidney and/or bladder | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| ethylbenzene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 0.9 mg/l | 13 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 | Not classified | Rat | NOAEL 3.4 mg/l | 28 days |
| ethylbenzene | Inhalation | endocrine system | Not classified | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| ethylbenzene | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 3.3 mg/l | 2 years |
| ethylbenzene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Multiple animal | NOAEL 4.2 mg/l | 90 days |

| | | muscles | | species | | |
|--------------------|------------|--|----------------|-------------------------|---------------------|--------------|
| ethylbenzene | Inhalation | heart immune system respiratory system | Not classified | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| ethylbenzene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 680 mg/kg/day | 6 months |
| 4-tert-butylphenol | Ingestion | endocrine system liver kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 2 generation |
| 4-tert-butylphenol | Ingestion | blood | Not classified | Rat | NOAEL 200 mg/kg | 6 weeks |

Aspiration Hazard

| Name | Value |
|---|-------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Aspiration hazard |
| toluene | Aspiration hazard |
| ethylbenzene | Aspiration hazard |

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|---|-----------|----------------|--------------|----------|---------------|-------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Green algae | Estimated | 72 hours | EL50 | 30-100 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Rainbow trout | Estimated | 96 hours | LL50 | 11.4 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Water flea | Estimated | 48 hours | EL50 | 3 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Green algae | Estimated | 72 hours | NOEL | 3 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Water flea | Estimated | 21 days | NOEC | 0.17 mg/l |
| butanone | 78-93-3 | Fathead minnow | Experimental | 96 hours | LC50 | 2,993 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC50 | 2,029 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 48 hours | EC50 | 308 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC10 | 1,289 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |

3M™ Scotch-Weld™ Neoprene High Performance Rubber and Gasket Adhesive EC-1300L, Yellow

| | | | | | | |
|---|------------|-------------------------------|---|----------|--------------------------------|------------------------------|
| butanone | 78-93-3 | Bacteria | Experimental | 16 hours | LOEC | 1,150 mg/l |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | 68037-42-3 | N/A | Data not available or insufficient for classification | N/A | N/A | n/a |
| Polychloroprene | 9010-98-4 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| toluene | 108-88-3 | Coho Salmon | Experimental | 96 hours | LC50 | 5.5 mg/l |
| toluene | 108-88-3 | Grass Shrimp | Experimental | 96 hours | LC50 | 9.5 mg/l |
| toluene | 108-88-3 | Green algae | Experimental | 72 hours | EC50 | 12.5 mg/l |
| toluene | 108-88-3 | Leopard frog | Experimental | 9 days | LC50 | 0.39 mg/l |
| toluene | 108-88-3 | Pink Salmon | Experimental | 96 hours | LC50 | 6.41 mg/l |
| toluene | 108-88-3 | Water flea | Experimental | 48 hours | EC50 | 3.78 mg/l |
| toluene | 108-88-3 | Coho Salmon | Experimental | 40 days | NOEC | 1.39 mg/l |
| toluene | 108-88-3 | Diatom | Experimental | 72 hours | NOEC | 10 mg/l |
| toluene | 108-88-3 | Water flea | Experimental | 7 days | NOEC | 0.74 mg/l |
| toluene | 108-88-3 | Activated sludge | Experimental | 12 hours | IC50 | 292 mg/l |
| toluene | 108-88-3 | Bacteria | Experimental | 16 hours | NOEC | 29 mg/l |
| toluene | 108-88-3 | Bacteria | Experimental | 24 hours | EC50 | 84 mg/l |
| toluene | 108-88-3 | Redworm | Experimental | 28 days | LC50 | >150 mg per kg of bodyweight |
| toluene | 108-88-3 | Soil microbes | Experimental | 28 days | NOEC | <26 mg/kg (Dry Weight) |
| acetone | 67-64-1 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 11,493 mg/l |
| acetone | 67-64-1 | Invertebrate | Experimental | 24 hours | LC50 | 2,100 mg/l |
| acetone | 67-64-1 | Rainbow trout | Experimental | 96 hours | LC50 | 5,540 mg/l |
| acetone | 67-64-1 | Water flea | Experimental | 21 days | NOEC | 1,000 mg/l |
| acetone | 67-64-1 | Bacteria | Experimental | 16 hours | NOEC | 1,700 mg/l |
| acetone | 67-64-1 | Redworm | Experimental | 48 hours | LC50 | >100 |
| rosin | 8050-09-7 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| rosin | 8050-09-7 | Zebra Fish | Experimental | 96 hours | LL50 | >1 mg/l |
| rosin | 8050-09-7 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| rosin | 8050-09-7 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| rosin | 8050-09-7 | Bacteria | Experimental | N/A | EC50 | 76.1 mg/l |
| zinc oxide | 1314-13-2 | Activated sludge | Estimated | 3 hours | EC50 | 6.5 mg/l |
| zinc oxide | 1314-13-2 | Green algae | Estimated | 72 hours | EC50 | 0.052 mg/l |
| zinc oxide | 1314-13-2 | Rainbow trout | Estimated | 96 hours | LC50 | 0.21 mg/l |

| | | | | | | |
|--------------------|-----------|---------------------|--------------|----------|-------|------------|
| zinc oxide | 1314-13-2 | Water flea | Estimated | 48 hours | EC50 | 0.07 mg/l |
| zinc oxide | 1314-13-2 | Green algae | Estimated | 72 hours | NOEC | 0.006 mg/l |
| zinc oxide | 1314-13-2 | Water flea | Estimated | 7 days | NOEC | 0.02 mg/l |
| ethylbenzene | 100-41-4 | Activated sludge | Experimental | 49 hours | EC50 | 130 mg/l |
| ethylbenzene | 100-41-4 | Atlantic Silverside | Experimental | 96 hours | LC50 | 5.1 mg/l |
| ethylbenzene | 100-41-4 | Green algae | Experimental | 96 hours | EC50 | 3.6 mg/l |
| ethylbenzene | 100-41-4 | Mysid Shrimp | Experimental | 96 hours | LC50 | 2.6 mg/l |
| ethylbenzene | 100-41-4 | Rainbow trout | Experimental | 96 hours | LC50 | 4.2 mg/l |
| ethylbenzene | 100-41-4 | Water flea | Experimental | 48 hours | EC50 | 1.8 mg/l |
| ethylbenzene | 100-41-4 | Water flea | Experimental | 7 days | NOEC | 0.96 mg/l |
| 4-tert-butylphenol | 98-54-4 | Ciliated protozoa | Experimental | 60 hours | IC50 | 18.4 mg/l |
| 4-tert-butylphenol | 98-54-4 | Green algae | Experimental | 72 hours | ErC50 | 14 mg/l |
| 4-tert-butylphenol | 98-54-4 | Invertebrate | Experimental | 96 hours | LC50 | 1.9 mg/l |
| 4-tert-butylphenol | 98-54-4 | Medaka | Experimental | 96 hours | LC50 | 5.1 mg/l |
| 4-tert-butylphenol | 98-54-4 | Water flea | Experimental | 48 hours | EC50 | 3.9 mg/l |
| 4-tert-butylphenol | 98-54-4 | Fathead minnow | Experimental | 128 days | NOEC | 0.01 mg/l |
| 4-tert-butylphenol | 98-54-4 | Green algae | Experimental | 72 hours | NOEC | 0.32 mg/l |
| 4-tert-butylphenol | 98-54-4 | Water flea | Experimental | 21 days | NOEC | 0.73 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|-------------------------------|----------|-------------------------------|------------------------------------|-------------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/ThO D | OECD 301F - Manometric respirometry |
| butanone | 78-93-3 | Experimental Biodegradation | 28 days | BOD | 98 %BOD/ThO D | OECD 301D - Closed bottle test |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | 68037-42-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Polychloroprene | 9010-98-4 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| toluene | 108-88-3 | Experimental Biodegradation | 20 days | BOD | 80 %BOD/ThO D | APHA Std Meth Water/Wastewater |
| toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | |
| acetone | 67-64-1 | Experimental Biodegradation | 28 days | BOD | 78 %BOD/ThO D | OECD 301D - Closed bottle test |
| acetone | 67-64-1 | Experimental Photolysis | | Photolytic half-life (in air) | 147 days (t 1/2) | |
| rosin | 8050-09-7 | Experimental Biodegradation | 28 days | CO2 evolution | 89 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| zinc oxide | 1314-13-2 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| ethylbenzene | 100-41-4 | Experimental Biodegradation | 28 days | CO2 evolution | 70-80 %CO2 evolution/THC | ISO 14593 Inorg C Headspace |

| | | | | | |
|--------------------|----------|-----------------------------|---------|--------------------------------|---|
| | | | | O2 evolution | |
| ethylbenzene | 100-41-4 | Experimental Photolysis | | Photolytic half-life (in air) | 4.26 days (t 1/2) |
| 4-tert-butylphenol | 98-54-4 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 98 %removal of DOC EC C.4.A. DOC Die-Away Test |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---|----------|------------------------|-------------|------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| butanone | 78-93-3 | Experimental Bioconcentration | | Log Kow | 0.3 | OECD 117 log Kow HPLC method |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, magnesium oxide complex | 68037-42-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polychloroprene | 9010-98-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| toluene | 108-88-3 | Experimental BCF - Other | 72 hours | Bioaccumulation factor | 90 | |
| toluene | 108-88-3 | Experimental Bioconcentration | | Log Kow | 2.73 | |
| acetone | 67-64-1 | Experimental BCF - Other | | Bioaccumulation factor | 0.65 | |
| acetone | 67-64-1 | Experimental Bioconcentration | | Log Kow | -0.24 | |
| rosin | 8050-09-7 | Analogous Compound BCF - Fish | 20 days | Bioaccumulation factor | <=129 | |
| rosin | 8050-09-7 | Experimental Bioconcentration | | Log Kow | 6.2 | OECD 117 log Kow HPLC method |
| zinc oxide | 1314-13-2 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | ≤217 | OECD305-Bioconcentration |
| ethylbenzene | 100-41-4 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 1 | |
| 4-tert-butylphenol | 98-54-4 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 88 | OECD305-Bioconcentration |
| 4-tert-butylphenol | 98-54-4 | Experimental Bioconcentration | | Log Kow | 3 | OECD 117 log Kow HPLC method |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--------------------|-----------|-------------------------------|------------|-------------|----------------------|
| toluene | 108-88-3 | Experimental Mobility in Soil | Koc | 37-160 l/kg | |
| acetone | 67-64-1 | Modeled Mobility in Soil | Koc | 9.7 l/kg | Episuite™ |
| rosin | 8050-09-7 | Modeled Mobility in Soil | Koc | 124 l/kg | ACD/Labs ChemSketch™ |
| 4-tert-butylphenol | 98-54-4 | Modeled Mobility in Soil | Koc | 840 l/kg | Episuite™ |

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

| Ingredient | CAS Nbr | Environmental endocrine disruptor information |
|------------|---------|---|
| | | |

| | | |
|--------------------|---------|--|
| 4-tert-butylphenol | 98-54-4 | This chemical has been determined to cause long-term effects in fish, including feminization of gonadal ducts in male fish and elevated levels of vitellogenin in female fish. |
|--------------------|---------|--|

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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|--|--|--|
| 14.1 UN number or ID number | UN1133 | UN1133 | UN1133 |
| 14.2 UN proper shipping name | ADHESIVES | ADHESIVES | ADHESIVES (ZINC OXIDE) |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |

| | | | |
|--------------------------------|--------------------|--------------------|--------------------|
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | F1 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|-------------------|----------------|-------------------------------|---|
| ethylbenzene | 100-41-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Polychloroprene | 9010-98-4 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| toluene | 108-88-3 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

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.

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|-------------------|----------------|
| toluene | 108-88-3 |

Restriction status: listed in REACH Annex XVII

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

Authorization status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|--------------------|----------------|
| 4-tert-butylphenol | 98-54-4 |

Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

Regulation (EU) 2019/1148 (marketing and use of explosive precursors)

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see your local legislation.

Global inventory status

Contact 3M for more 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 product are in compliance with the new substance notification requirements of CEPA. 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 |
| E2 Hazardous to the Aquatic environment | 200 | 500 |
| 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 |
| formaldehyde | 50-00-0 | 5 | 50 |

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

| | |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| 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:

Label: CLP Percent Unknown information was modified.

Label: CLP Precautionary - Prevention information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 9: Property description for optional properties information was modified.

Section 9: Vapour pressure value information was modified.

Section 14 Proper Shipping Name information was modified.

Section 15: Seveso Substance Text information was added.

Annex

| 1. Title | |
|---|--|
| Substance identification | toluene; EC No. 203-625-9; CAS Nbr 108-88-3; |
| Exposure Scenario Name | Formulation |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) ERC 02 -Formulation into mixture |
| Processes, tasks and activities covered | Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes, bottles or small reservoirs. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Assumes use at not more than 20°C above ambient temperature; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Duration of use: 5 days/week; Emission days per year: 300 days/year; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour); Environmental: None needed; |
| Waste management measures | Do not apply industrial sludge to natural soils; Send to an industrial sewage treatment plant; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| 1. Title | |
|---------------------------------|---|
| Substance identification | toluene; EC No. 203-625-9; CAS Nbr 108-88-3; |
| Exposure Scenario Name | Industrial Use of Adhesives and Sealants |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 05 -Mixing or blending in batch processes PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |

| | |
|---|--|
| | PROC 10 -Roller application or brushing PROC 13 -Treatment of articles by dipping and pouring ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| Processes, tasks and activities covered | Application of product with a roller or brush. Application of product. Mixing operations (open systems). Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes, bottles or small reservoirs. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Assumes use at not more than 20°C above ambient temperature; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Duration of use: 5 days/week; Emission days per year: 300 days/year; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour); Environmental: Air abatement; |
| Waste management measures | Do not apply industrial sludge to natural soils; Send to an industrial sewage treatment plant; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|---|
| 1. Title | |
| Substance identification | toluene; EC No. 203-625-9; CAS Nbr 108-88-3; |
| Exposure Scenario Name | Industrial Use of Coatings |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 03 -Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC 07 -Industrial spraying PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC 10 -Roller application or brushing ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
| Processes, tasks and activities covered | Application of product with a roller or brush. Manual application of product. Spraying of substances/mixtures. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging. |
| 2. Operational conditions and risk management measures | |

| | |
|----------------------------------|---|
| Operating Conditions | <p>Physical state:Liquid.</p> <p>General operating conditions:</p> <p>Assumes use at not more than 20°C above ambient temperature; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Duration of use: 5 days/week; Emission days per year: 300 days/year;</p> |
| Risk management measures | <p>Under the operational conditions described above the following risk management measures apply:</p> <p>General risk management measures:</p> <p>Human health: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);</p> <p>Environmental: Air abatement; Industrial Sewage Treatment Plant; ;</p> <p>The following task-specific risk management measures apply in addition to those listed above:</p> <p>Task: Spraying; Human Health; Ventilated Process Enclosures; Air-purifying Full-Face (with gas/vapour cartridge, that can be combined with a particulate filter);</p> |
| Waste management measures | Do not apply industrial sludge to natural soils; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

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