

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

SECTION 1: Identification

1.1. Product identifier

3M[™] Nitrile High Performance Rubber and Gasket Adhesive 847

Product Identification Numbers

62-0847-6530-4 62-0847-7530-3 62-0847-8530-2

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Industrial use.

For Industrial or Professional use only.

1.3. Supplier's details

Address: 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113

Telephone: 136 136

E Mail: productinfo.au@mmm.com

Website: www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2.

Reproductive Toxicity: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3

2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

Signal word

Danger

Symbols

Flame |Exclamation mark |Health Hazard |

Pictograms







Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280K Wear protective gloves and respiratory protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention. P337 + P313 IF eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

3M[™] Nitrile High Performance Rubber and Gasket Adhesive 847

Disposal:

P501

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

2.3. Other assigned/identified product hazards

Repeated exposure may cause skin dryness or cracking.

2.4. Other hazards which do not result in classification

Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Weight | |
|---------------------------------|------------|-------------|--|
| Acetone | 67-64-1 | 40 - 70 | |
| Acrylonitrile-Butadiene Polymer | 9003-18-3 | 10 - 30 | |
| Glycerol Esters of Rosin Acids | 8050-31-5 | 7 - 13 | |
| Phenol-Formaldehyde Polymer | 25085-50-1 | 5 - 10 | |
| Salicylic acid | 69-72-7 | < 3 | |
| Zinc Oxide | 1314-13-2 | < 2 | |
| Cyclohexane | 110-82-7 | < 1 | |
| Toluene | 108-88-3 | < 1 | |
| Xylene | 1330-20-7 | < 1 | |
| Heptane | 142-82-5 | < 0.5 | |
| p-Tert-Butylphenol | 98-54-4 | < 0.5 | |

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

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

the case of the. Ose a fire fighting agent surface for frammable fightings such as any element of carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

| Substance | <u>Condition</u> |
|---------------------|--------------------|
| Hydrocarbons. | During combustion. |
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |
| Oxides of nitrogen. | During combustion. |

5.3. Special protective actions 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.

Hazchem Code: •3YE

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 vapors, 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. 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. 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 in accordance with applicable local/regional/national/international regulations.

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.

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 |
|-------------|-----------|----------------|----------------------------|-------------------------|
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human |
| | | | | carcinogen, Ototoxicant |
| Toluene | 108-88-3 | Australia OELs | TWA(8 hours):191 mg/m3(50 | SKIN |
| | | | ppm);STEL(15 minutes):574 | |
| | | | mg/m3(150 ppm) | |
| Cyclohexane | 110-82-7 | ACGIH | TWA:100 ppm | |
| Cyclohexane | 110-82-7 | Australia OELs | TWA(8 hours):350 | |
| | | | mg/m3(100 ppm);STEL(15 | |
| | | | minutes):1050 mg/m3(300 | |
| | | | ppm) | |
| Zinc Oxide | 1314-13-2 | ACGIH | TWA(respirable fraction):2 | |
| | | | mg/m3;STEL(respirable | |
| | | | fraction):10 mg/m3 | |
| Zinc Oxide | 1314-13-2 | Australia OELs | TWA(Inspirable dust)(8 | |
| | | | hours):10 mg/m3;TWA(as | |
| | | | fume)(8 hours):5 | |
| | | | mg/m3;STEL(as fume)(15 | |
| | | | minutes):10 mg/m3 | |
| Xylene | 1330-20-7 | ACGIH | TWA:20 ppm;STEL:150 ppm | A4: Not class. as human |
| | | | | carcin |
| Xylene | 1330-20-7 | Australia OELs | TWA(8 hours):350 mg/m3(80 | |
| | | | ppm);STEL(15 minutes):655 | |
| | | | mg/m3(150 ppm) | |
| Heptane | 142-82-5 | ACGIH | TWA:400 ppm;STEL:500 ppm | |
| Heptane | 142-82-5 | Australia OELs | TWA(8 hours):1640 | |
| | | | mg/m3(400 ppm);STEL(15 | |
| | | | minutes):2050 mg/m3(500 | |
| | | | ppm) | |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | A4: Not class. as human |
| | | | | carcin |
| Acetone | 67-64-1 | Australia OELs | TWA(8 hours):1185 | |
| | | | mg/m3(500 ppm);STEL(15 | |
| | | | minutes):2375 mg/m3(1000 | |
| | | | ppm) | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Australia OELs: Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

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:

Indirect vented goggles.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

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: Butyl rubber.

Polymer laminate

Select and use gloves according to AS/NZ 2161.

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 vapour respirators may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer. Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|---|---------------------------------|--|
| Physical state | Liquid. | |
| Colour | Dark Brown | |
| Odour | Sharp Solvent | |
| Odour threshold | No data available. | |
| pH | Not applicable. | |
| Melting point/Freezing point | Not applicable. | |
| Boiling point/Initial boiling point/Boiling range | >=56 °C [Details: Acetone] | |
| Flash point | -20 °C [Test Method:Closed Cup] | |
| Evaporation rate | 1.9 [Ref Std:ETHER=1] | |
| Flammability (solid, gas) | Not applicable. | |
| Flammable Limits(LEL) | 2.6 % [Details: Acetone] | |

| Flammable Limits(UEL) | 12.8 % [Details: Acetone] | |
|---|---|--|
| Vapour pressure | <=24,664.6 Pa [@ 20 °C] | |
| Vapor Density and/or Relative Vapor Density | 2 [Ref Std:AIR=1] | |
| Density | 0.91 g/ml | |
| Relative density | 0.91 [Ref Std:WATER=1] | |
| Water solubility | Slight (less than 10%) | |
| Solubility- non-water | No data available. | |
| Partition coefficient: n-octanol/water | No data available. | |
| Autoignition temperature | No data available. | |
| Decomposition temperature | No data available. | |
| Viscosity/Kinematic Viscosity | 1,500 - 3,200 mPa-s [@ 27 °C] | |
| Volatile organic compounds (VOC) | No data available. | |
| Percent volatile | No data available. | |
| VOC less H2O & exempt solvents | <=98 g/l [Test Method:calculated SCAQMD rule 443.1] | |
| Molecular weight | No data available. | |
| Solids content | 30 - 60 % | |

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. Conditions to avoid

Heat.

Sparks and/or flames.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

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

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

Dermal Defatting Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

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.

Reproductive/Developmental Toxicity:

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

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 | Ingestion | | No data available; calculated ATE >5,000 |
| | | | mg/kg |
| Acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| Acetone | Inhalation-Vapour (4 | Rat | LC50 76 mg/l |
| | hours) | | |
| Acetone | Ingestion | Rat | LD50 5,800 mg/kg |
| Acrylonitrile-Butadiene Polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Glycerol Esters of Rosin Acids | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Glycerol Esters of Rosin Acids | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Phenol-Formaldehyde Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Phenol-Formaldehyde Polymer | Ingestion | Rat | LD50 5,660 mg/kg |
| Salicylic acid | Dermal | Rat | LD50 > 2,000 mg/kg |
| Salicylic acid | Ingestion | Rat | LD50 891 mg/kg |
| Zinc Oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Zinc Oxide | Inhalation-Dust/Mist | Rat | LC50 > 5.7 mg/l |
| | (4 hours) | | |
| Zinc Oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Cyclohexane | Dermal | Rat | LD50 > 2,000 mg/kg |
| Cyclohexane | Inhalation-Vapour (4 | Rat | LC50 > 32.9 mg/l |
| | hours) | | |
| Cyclohexane | Ingestion | Rat | LD50 6,200 mg/kg |
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation-Vapour (4 | Rat | LC50 30 mg/l |
| | hours) | | |

| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
|--------------------|--------------------------------|--------|---------------------|
| Heptane | Dermal | Rabbit | LD50 3,000 mg/kg |
| Heptane | Inhalation-Vapour (4 hours) | Rat | LC50 103 mg/l |
| Heptane | Ingestion | Rat | LD50 > 15,000 mg/kg |
| p-Tert-Butylphenol | Dermal | Rabbit | LD50 2,318 mg/kg |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| p-Tert-Butylphenol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.6 mg/l |
| p-Tert-Butylphenol | Ingestion | Rat | LD50 4,000 mg/kg |
| Xylene | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| Xylene | Ingestion | Rat | LD50 3,523 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------------|------------------------|---------------------------|
| | 76 | No. 11. 20. |
| Acetone | Mouse | Minimal irritation |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Glycerol Esters of Rosin Acids | Rabbit | Minimal irritation |
| Salicylic acid | Rabbit | No significant irritation |
| Zinc Oxide | Human and animal | No significant irritation |
| Cyclohexane | Rabbit | Mild irritant |
| Toluene | Rabbit | Irritant |
| Heptane | Human | Mild irritant |
| p-Tert-Butylphenol | Rabbit | Irritant |
| Xylene | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------------------------|------------------------|---------------------------|
| Acetone | Rabbit | Severe irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Glycerol Esters of Rosin Acids | Rabbit | Mild irritant |
| Salicylic acid | Rabbit | Corrosive |
| Zinc Oxide | Rabbit | Mild irritant |
| Cyclohexane | Rabbit | Mild irritant |
| Toluene | Rabbit | Moderate irritant |
| Heptane | Professional judgement | Moderate irritant |
| p-Tert-Butylphenol | Rabbit | Corrosive |
| Xylene | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|--------------------------------|------------------|--|
| | | |
| Glycerol Esters of Rosin Acids | Guinea pig | Not classified |
| Phenol-Formaldehyde Polymer | Human | Some positive data exist, but the data are not sufficient for classification |
| Salicylic acid | Mouse | Not classified |
| Zinc Oxide | Guinea pig | Not classified |
| Toluene | Guinea pig | Not classified |
| p-Tert-Butylphenol | Human and animal | Not classified |

Photosensitisation

| Name | Species | Value |
|------|---------|-------|
| | | |

| Salicylic acid | Mouse | Not sensitizing |
|-----------------|----------|-------------------|
| Surie y ne dela | 1110 450 | 1 tot sensitizing |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------------------|----------|--|
| Acetone | In vivo | Not mutagenic |
| Acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Glycerol Esters of Rosin Acids | In Vitro | Not mutagenic |
| Salicylic acid | In Vitro | Not mutagenic |
| Salicylic acid | In vivo | Not mutagenic |
| 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 |
| Cyclohexane | In Vitro | Not mutagenic |
| Cyclohexane | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Heptane | In Vitro | Not mutagenic |
| p-Tert-Butylphenol | In Vitro | Not mutagenic |
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------|----------------|-------------------------|--|
| Acetone | Not specified. | Multiple animal species | 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 |
| p-Tert-Butylphenol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| 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 |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|----------------|------------|--------------------------------------|-----------------|----------------|--------------------------|
| Acetone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,700 | 13 weeks |
| | | | | mg/kg/day | |
| Acetone | Inhalation | Not classified for | Rat | NOAEL 5.2 | during |
| | | development | | mg/l | organogenesis |
| Salicylic acid | Ingestion | Toxic to development | Rat | NOAEL 75 | during |
| | | | | mg/kg/day | organogenesis |
| Zinc Oxide | Ingestion | Not classified for | Multiple animal | NOAEL 125 | premating & during |

| | | reproduction and/or development | species | mg/kg/day | gestation |
|--------------------|------------|--|-------------------------|------------------------|-------------------------|
| Cyclohexane | Inhalation | Not classified for female reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Not classified for male reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Not classified for development | Rat | NOAEL 6.9 mg/l | 2 generation |
| 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 |
| p-Tert-Butylphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 600 mg/kg/day | 2 generation |
| p-Tert-Butylphenol | Ingestion | Not classified for development | Rat | NOAEL 70 mg/kg/day | 2 generation |
| p-Tert-Butylphenol | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | 2 generation |
| Xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|--|
| Xylene | Ingestion | Mouse | Not classified for effects on or via lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-------------|------------|---|--|------------------|------------------------|------------------------|
| 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 |
| Cyclohexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Cyclohexane | Inhalation | respiratory | Some positive | Human and | NOAEL Not | |

| | | irritation | data exist, but the data are not sufficient for classification | animal | available | |
|------------------------|------------|---|--|----------------------------|------------------------|------------------------|
| Cyclohexane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 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 system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Heptane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Heptane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Heptane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| p-Tert- Butylphenol | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | LOAEL 5.6 mg/l | 4 hours |
| Xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--------------------|----------------|------------|---------------------|----------------------|
| Acetone | Dermal | eyes | Not classified | Guinea pig | NOAEL Not available | 3 weeks |
| Acetone | Inhalation | hematopoietic | Not classified | Human | NOAEL 3 mg/l | 6 weeks |

| | | system | | | | |
|--------------------------------------|------------|---|--|------------|---------------------------|---------------------------|
| 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 |
| Glycerol Esters of Rosin Acids | Ingestion | liver heart skin endocrine system bone, teeth, nails, and/or hair blood bone marrow hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 5,000 mg/kg/day | 90 days |
| Salicylic acid | Ingestion | liver | Not classified | Rat | mg/kg/day | 3 days |
| 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 |
| Cyclohexane | Inhalation | liver | Not classified | Rat | NOAEL 24 mg/l | 90 days |
| Cyclohexane | Inhalation | auditory system | Not classified | Rat | NOAEL 1.7 mg/l | 90 days |
| Cyclohexane | Inhalation | kidney and/or bladder | Not classified | Rabbit | NOAEL 2.7 mg/l | 10 weeks |
| Cyclohexane | Inhalation | hematopoietic system | Not classified | Mouse | NOAEL 24 mg/l | 14 weeks |
| Cyclohexane | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 8.6 mg/l | 30 weeks |
| Toluene | Inhalation | auditory system eyes olfactory system | Causes damage to organs through prolonged or | Human | NOAEL Not available | poisoning and/or abuse |

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| | | | repeated exposure | | | |
|------------------------|------------|---|--|-------------------------|--------------------------|------------------------|
| Toluene | Inhalation | nervous system | May cause damage to organs though 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 data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| 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 |
| Heptane | Inhalation | liver nervous system kidney and/or bladder | Not classified | Rat | NOAEL 12 mg/l | 26 weeks |
| p-Tert- Butylphenol | Ingestion | endocrine system liver kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 2 generation |
| p-Tert- Butylphenol | Ingestion | blood | Not classified | Rat | NOAEL 200 mg/kg | 6 weeks |
| Xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |

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| Xylene | Inhalation | heart endocrine system gastrointestinal tract hematopoietic system muscles kidney and/or bladder respiratory system | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
|--------|------------|--|----------------|----------------------------|--------------------------|-----------|
| Xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |

Aspiration Hazard

| 110 011 W1011 11 W1011 W | | | | |
|--------------------------|-------------------|--|--|--|
| Name | Value | | | |
| Cyclohexane | Aspiration hazard | | | |
| Toluene | Aspiration hazard | | | |
| Heptane | Aspiration hazard | | | |
| Xylene | Aspiration hazard | | | |

Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects

Not determined.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|-----------------------------------|----------------------|----------------------------|---------------------------|----------------------|--------------------------------|------------------------|
| Acetone | 67-64-1 | Algae or other | Experimental | 96 hours | EC50 | 11,493 mg/l |
| | | aquatic plants | • | | | |
| 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 |
| Acrylonitrile- | 9003-18-3 | N/A | Data not available | N/A | N/A | N/A |
| Butadiene Polymer | | | or insufficient for | | | |
| CL LE (| 8050-31-5 | C 1 | classification | 72.1 | N. d. l. d.l.d. | > 100 // |
| Glycerol Esters of Rosin Acids | 8050-31-5 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| | 8050-31-5 | Rainbow trout | Estimated | 96 hours | No tox obs at lmt | >100 mg/l |
| Rosin Acids | 18030-31-3 | Kamoow trout | Listimated | 70 Hours | of water sol | 2 100 mg/1 |
| | 8050-31-5 | Water flea | Experimental | 48 hours | No tox obs at lmt | >100 mg/l |
| Rosin Acids | 0020 21 2 | Water fied | Experimental | To Hours | of water sol | 100 mg/1 |
| Glycerol Esters of | 8050-31-5 | Green algae | Estimated | 72 hours | No tox obs at lmt | >100 mg/l |
| Rosin Acids | | | | | of water sol | |
| Phenol- | 25085-50-1 | N/A | Data not available | N/A | N/A | N/A |
| Formaldehyde | | | or insufficient for | | | |
| Polymer | | | classification | | | ļ |
| Salicylic acid | 69-72-7 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Salicylic acid | 69-72-7 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| Salicylic acid | 69-72-7 | Water flea | Experimental | 48 hours | EC50 | 870 mg/l |
| Salicylic acid | 69-72-7 | Water flea | Experimental | 21 days | NOEC | 10 mg/l |
| Salicylic acid | 69-72-7 | Activated sludge | Experimental | 3 hours | EC50 | >3,200 |
| Salicylic acid | 69-72-7 | Bacteria | Experimental | 18 hours | EC10 | 465 |
| 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 |
| Cyclohexane Cyclohexane | 110-82-7 110-82-7 | Bacteria Fathead minnow | Experimental Experimental | 24 hours 96 hours | IC50 LC50 | 97 mg/l 4.53 mg/l |
| Cyclohexane | 110-82-7 | Water flea | Experimental | 48 hours | EC50 | 0.9 mg/l |
| 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 |
| | | | 1 | | | bodyweight |
| Toluene | 108-88-3 | Soil microbes | Experimental | 28 days | NOEC | <26 mg/kg (Dry Weight) |
| Xylene | 1330-20-7 | Activated sludge | Estimated | 3 hours | NOEC | 157 mg/l |
| Xylene | 1330-20-7 | Green algae | Estimated | 72 hours | EC50 | 4.36 mg/l |
| Xylene | 1330-20-7 | Rainbow trout | Estimated | 96 hours | LC50 | 2.6 mg/l |
| Xylene | 1330-20-7 | Water flea | Estimated | 48 hours | EC50 | 3.82 mg/l |
| Xylene | 1330-20-7 | Green algae | Estimated | 72 hours | NOEC | 0.44 mg/l |
| Xylene | 1330-20-7 | Water flea | Estimated | 7 days | NOEC | 0.96 mg/l |
| Xylene | 1330-20-7 | Rainbow trout | Experimental | 56 days | NOEC | >1.3 mg/l |
| Heptane | 142-82-5 | Water flea | Experimental | 48 hours | EC50 | 1.5 mg/l |
| Heptane | 142-82-5 | Water flea | Estimated | 21 days | NOEC | 0.17 mg/l |
| p-Tert-Butylphenol | 98-54-4 | Ciliated protozoa | Experimental | 60 hours | IC50 | 18.4 mg/l |
| p-Tert-Butylphenol | | Green algae | Experimental | 72 hours | ErC50 | 14 mg/l |
| p-Tert-Butylphenol | 98-54-4 | Invertebrate | Experimental | 96 hours | LC50 | 1.9 mg/l |

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| p-Tert-Butylphenol 98-54-4 | Medaka | Experimental | 96 hours | LC50 | 5.1 mg/l |
|----------------------------|----------------|--------------|----------|------|-----------|
| p-Tert-Butylphenol 98-54-4 | Water flea | Experimental | 48 hours | EC50 | 3.9 mg/l |
| p-Tert-Butylphenol 98-54-4 | Fathead minnow | Experimental | 128 days | NOEC | 0.01 mg/l |
| p-Tert-Butylphenol 98-54-4 | Green algae | Experimental | 72 hours | NOEC | 0.32 mg/l |
| p-Tert-Butylphenol 98-54-4 | Water flea | Experimental | 21 days | NOEC | 0.73 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|-------------------------------------|------------|--|----------|-----------------------------------|--|-------------------------------------|
| | | | | | | |
| Acetone | 67-64-1 | Experimental Biodegradation | 28 days | BOD | 78 %BOD/ThOD | OECD 301D - Closed bottle test |
| Acetone | 67-64-1 | Experimental Photolysis | | Photolytic half-life (in air) | 147 days (t 1/2) | |
| Acrylonitrile- Butadiene Polymer | 9003-18-3 | Data not available- insufficient | N/A | N/A | N/A | N/A |
| Glycerol Esters of Rosin Acids | 8050-31-5 | Experimental Biodegradation | 28 days | CO2 evolution | 0 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Phenol- Formaldehyde Polymer | 25085-50-1 | Experimental Biodegradation | 28 days | CO2 evolution | 0 %CO2 evolution/THCO2 evolution | |
| Salicylic acid | 69-72-7 | Experimental Biodegradation | 14 days | BOD | 88.1 %BOD/ThOD | OECD 301C - MITI test (I) |
| Zinc Oxide | 1314-13-2 | Data not available- insufficient | N/A | N/A | N/A | N/A |
| Cyclohexane | 110-82-7 | Experimental Biodegradation | 28 days | BOD | 77 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Cyclohexane | 110-82-7 | Experimental Photolysis | | Photolytic half-life (in air) | 4.14 days (t 1/2) | |
| Toluene | 108-88-3 | Experimental Biodegradation | 20 days | BOD | 80 %BOD/ThOD | APHA Std Meth Water/Wastewater |
| Toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | |
| Xylene | 1330-20-7 | Experimental Biodegradation | 28 days | BOD | 90- 98 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Xylene | 1330-20-7 | Experimental Photolysis | | Photolytic half-life (in air) | 1.4 days (t 1/2) | |
| Heptane | 142-82-5 | Experimental Biodegradation | 28 days | BOD | 101 %BOD/ThOD | OECD 301C - MITI test (I) |
| Heptane | 142-82-5 | Experimental Photolysis | | Photolytic half-life (in air) | 4.24 days (t 1/2) | |
| p-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 Number | Test type | Duration | Study Type | Test result | Protocol |
|-------------------------------------|------------|---|----------|------------------------|-------------|----------|
| Acetone | 67-64-1 | Experimental BCF - Other | | Bioaccumulation factor | 0.65 | |
| Acetone | 67-64-1 | Experimental Bioconcentration | | Log Kow | -0.24 | |
| Acrylonitrile- Butadiene Polymer | 9003-18-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Glycerol Esters of Rosin Acids | 8050-31-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Phenol- Formaldehyde Polymer | 25085-50-1 | Estimated Bioconcentration | | Bioaccumulation factor | 7.4 | |

| Salicylic acid | 69-72-7 | Experimental Bioconcentration | | Log Kow | 2.26 | |
|--------------------|-----------|-------------------------------|----------|------------------------|------|---------------------------------|
| Zinc Oxide | 1314-13-2 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | ≤217 | OECD305-Bioconcentration |
| Cyclohexane | 110-82-7 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 129 | OECD305-Bioconcentration |
| Toluene | 108-88-3 | Experimental BCF - Other | 72 hours | Bioaccumulation factor | 90 | |
| Toluene | 108-88-3 | Experimental Bioconcentration | | Log Kow | 2.73 | |
| Xylene | 1330-20-7 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 25.9 | |
| Heptane | 142-82-5 | Estimated Bioconcentration | | Bioaccumulation factor | 105 | |
| p-Tert-Butylphenol | 98-54-4 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 88 | OECD305-Bioconcentration |
| p-Tert-Butylphenol | 98-54-4 | Experimental Bioconcentration | | Log Kow | 3 | OECD 117 log Kow HPLC method |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

SECTION 14: Transport Information

Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: UN1133

Proper shipping name: ADHESIVES

Class/Division: 3

Sub Risk: Not applicable. **Packing Group:** II

Special Instructions: Limited quantity may apply

Hazchem Code: •3YE

IERG: 14

International Air Transport Association (IATA) - Air Transport

UN No.: UN1133

Proper shipping name: ADHESIVES

Class/Division: 3

Sub Risk: Not applicable. **Packing Group:** II

Special Instructions: 3M item ID 62084785302 - IATA Forbidden 3M Packaging does not meet Regulatory Agency

requirements

International Maritime Dangerous Goods Code (IMDG)- Marine Transport

UN No.: UN1133

Proper shipping name: ADHESIVES

Class/Division: 3

3M™ Nitrile High Performance Rubber and Gasket Adhesive 847

Sub Risk: Not applicable. Packing Group: II

Marine Pollutant: Not applicable.

Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

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

Australian Inventory Status:

All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product, Please contact 3M Australia on 136 136 for further details.

Poison Schedule: This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

SECTION 16: Other information

Revision information:

Complete document review.

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 Safety 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.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

3M Australia SDSs are available at www.3m.com.au