

SAFETY DATA SHEET

3M™ SCOTCHKOTE™ ELECTRICAL COATING FD

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ISSUED by: 3M AUSTRALIA PTY LIMITED

Section 1 - Identification

Product Identifier

3M™ SCOTCHKOTE™ ELECTRICAL COATING FD

Product Code

80-6116-1578-4

Company Name

3M AUSTRALIA PTY LIMITED

Address

Building A, 1 Rivett Road North Ryde
NSW 2113 AUSTRALIA

Telephone/Fax Number

Tel: 136 136

Emergency Phone Number

1800 097 146 (24H) (Australia only)

E-mail Address

productinfo.au@mmm.com

Recommended use of the chemical and restrictions on use

Electrical

For Industrial or Professional use only.

Other Names

Name	Product Code
3M™ SCOTCHKOTE™ ELECTRICAL COATING FD	Document group: 30-0188-0

Additional Information

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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 2 - Hazard(s) Identification

GHS classification of the substance/mixture

Flammable liquids: Category 2

Eye damage/irritation: Category 2

Toxic to Reproduction: Category 1

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Specific target organ toxicity (repeated exposure): Category 2
Specific target organ toxicity (single exposure): Category 3 (Narcotic)

Signal Word (s)

DANGER

Hazard Statement (s)

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure: nervous system | sensory organs.

Pictogram (s)

Health hazard, Flame, Exclamation mark



Precautionary Statement – 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/lighting] equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280(w) Wear respiratory protection.

Precautionary Statement – 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.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
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.

Precautionary Statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statement – Disposal

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

Precautionary Statement – General

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Other Information

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(Transport Information) of this Safety Data Sheets for product Dangerous Goods Classification.

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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.

Other assigned/identified product hazards:

None known.

Other hazards which do not result in classification:

Causes mild skin irritation.

Toxic to aquatic life with long lasting effects.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
acetone	67-64-1	60-75 %weight
Acrylonitrile - butadiene polymer	9003-18-3	10-20 %weight
Resin acids and rosin acids, esters with glycerol	8050-31-5	5-10 %weight
Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol	25085-50-1	5-10 %weight
Salicylic acid	69-72-7	< 3%weight
zinc oxide	1314-13-2	1-2 %weight
cyclohexane	110-82-7	< 1%weight
Toluene	108-88-3	<= 1%weight
n-hexane	110-54-3	< 1%weight
butanone	78-93-3	<= 1%weight
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	< 0.5%weight

Other Information

This material is a mixture.

Section 4 - First Aid Measures

Inhalation

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

Ingestion

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

Skin

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

Eye

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

Indication of immediate medical attention and special treatment needed if necessary

Not applicable.

Most important symptoms/effects, acute, delayed and aggravated medical conditions

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects following prolonged or repeated exposure. See Section 11 (Toxicological Information) for additional details.

Section 5 - Firefighting Measures

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.

Hazards from Combustion Products

Substance: Hydrocarbons.

Condition: During combustion.

Substance: Carbon monoxide.

Condition: During combustion.

Substance: Carbon dioxide.

Condition: During combustion.

Substance: Oxides of nitrogen.

Condition: During combustion.

Special Protective Equipment 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.

Specific hazards arising from the chemical

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

Hazchem Code

•3YE

Decomposition Temperature

No data available.

Section 6 - Accidental Release Measures

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 and 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.

Methods and materials 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.

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.

Section 7 - Handling and Storage

Precautions for Safe Handling

Keep out of reach of children. 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.

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 and Personal Protection

Occupational exposure limit values

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 ppm); STEL(15 minutes): 574 mg/m³ (150 ppm) SKIN

n-Hexane 110-54-3 ACGIH TWA:50 ppm Danger of cutaneous absorption

n-Hexane 110-54-3 Australia OELs TWA (8 hours): 72 mg/m³ (20 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) (15minutes):10 mg/m³

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)

Butanone 78-93-3 ACGIH TWA:200 ppm; STEL:300 ppm

Butanone 78-93-3 Australia OELs TWA (8 hours): 445 mg/m³ (150 ppm); STEL (15 minutes): 890 mg/m³ (300 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.

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.

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

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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.

Eye and 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.

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.

Gloves made from the following material(s) are recommended: Butyl rubber.

Fluoroelastomer

Select and use gloves according to AS/NZ 2161.

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Specific Physical Form: Viscous.	Colour	Dark Brown
Odour	Sharp Solvent	Melting/Freezing Point	Not applicable.
Boiling Point	$\geq 56^{\circ}\text{C}$ [Details:Acetone]	Decomposition Temperature	No data available.
Solubility in Water	Slight (less than 10%)	pH	Not applicable.
Vapour Pressure	$\leq 24,664.6$ Pa [@ 20 °C]	Relative Vapour Density (Air=1)	2 [Ref Std: AIR=1]
Evaporation Rate	1.9 [Ref Std: ETHER=1]	Odour Threshold	No data available.
Volatile Component	40 - 75 % weight	Partition Coefficient: n-octanol/water (log value)	No data available.
Density	0.87 g/ml	Flash Point	-20°C (Closed Cup)
Flammability	Not applicable. (solid, gas)	Auto-Ignition Temperature	465 °C
Flammable Limits - Lower	2.6 %	Flammable Limits - Upper	12.8 %
Molecular Weight	No data available.	Initial boiling point and boiling range	$\geq 56^{\circ}\text{C}$ [Details:Acetone]
Kinematic Viscosity	325 mPa-s [@ 23 °C]	Softening Point	No data available.
Solubility in other solvents (kg/m3)	Solubility- non-water: No data available.	Relative Density	0.87 [Ref Std: WATER=1]

Other Information

Average particle size: No data available.

Bulk density: No data available.

Volatile organic compounds (VOC): ≤ 26.4 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:low solids less exempts]

VOC less H₂O & exempt solvents ≤ 104 g/l [Test Method:calculated SCAQMD rule 443.1]

VOC less H₂O & exempt solvents ≤ 0.87 lb/gal [Test Method:calculated SCAQMD rule 443.1]

VOC less H₂O & exempt solvents ≤ 3 % [Test Method:calculated per CARB title 2]

Solids content: ≥ 28 % weight

Section 10 - Stability and Reactivity

Reactivity

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

Chemical Stability

Stable.

Possibility of hazardous reactions

Hazardous polymerisation will not occur.

Conditions to Avoid

Heat.

Sparks and/or flames.

Incompatible Materials

Strong oxidising agents.

Hazardous Decomposition Products

None known.

Section 11 - Toxicological Information

Toxicology 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.

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

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

Acrylonitrile - butadiene polymer Dermal Rabbit LD50 > 15,000 mg/kg

Acrylonitrile - butadiene polymer Ingestion Rat LD50 > 30,000 mg/kg

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol Dermal LD50 estimated to be > 5,000 mg/kg

Resin acids and rosin acids, esters with glycerol Dermal Rabbit LD50 > 5,000 mg/kg

Resin acids and rosin acids, esters with glycerol Ingestion Rat LD50 > 2,000 mg/kg

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol Ingestion Rat LD50 5,660 mg/kg

Salicylic acid Dermal Rat LD50 > 2,000 mg/kg

Salicylic acid Ingestion Rat LD50 891 mg/kg

n-Hexane Dermal Rabbit LD50 > 2,000 mg/kg

n-Hexane Inhalation-Vapour (4 hours) Rat LC50 170 mg/l

n-Hexane Ingestion Rat LD50 > 28,700 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

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

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

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Cyclohexane Dermal Rat LD50 > 2,000 mg/kg

Cyclohexane Inhalation-Vapour (4 hours) Rat LC50 > 32.9 mg/l

Cyclohexane Ingestion Rat LD50 6,200 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Dermal Rat LD50 > 2,000 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion Rat LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Photosensitisation:

Name: Salicylic acid

Species: Mouse

Value: Not sensitizing

Ingestion

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

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

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Skin Corrosion/Irritation

Name / Species / Value

Acetone Mouse Minimal irritation

Acrylonitrile - butadiene polymer Professional judgement No significant irritation

Resin acids and rosin acids, esters with glycerol Rabbit Minimal irritation

Salicylic acid Rabbit No significant irritation

n-Hexane Human and animal Mild irritant

Cyclohexane Rabbit Mild irritant

Zinc Oxide Human and animal No significant irritation

Butanone Rabbit Minimal irritation

Toluene Rabbit Irritant

Cyclohexane Rabbit Mild irritant

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Rabbit Mild irritant

Eye

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

Serious Eye Damage/Irritation

Name / Species / Value

Acetone Rabbit Severe irritant

Acrylonitrile - butadiene polymer Professional judgement No significant irritation

Resin acids and rosin acids, esters with glycerol Rabbit Mild irritant

Salicylic acid Rabbit Corrosive

n-Hexane Rabbit Mild irritant

Zinc Oxide Rabbit Mild irritant

Butanone Rabbit Severe irritant

Toluene Rabbit Moderate irritant

Cyclohexane Rabbit Mild irritant

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Rabbit Mild irritant

Respiratory Sensitisation

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

Skin Sensitisation

Name / Species / Value

Resin acids and rosin acids, esters with glycerol Guinea pig Not classified

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol Human Some positive data exist, but the data are not sufficient for classification

Salicylic acid Mouse Not classified

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n-Hexane Human Not classified
Zinc Oxide Guinea pig Not classified
Toluene Guinea pig Not classified
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Guinea pig Not classified

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
Resin acids and rosin acids, esters with glycerol In Vitro Not mutagenic
Salicylic acid In Vitro Not mutagenic
Salicylic acid In vivo Not mutagenic
n-Hexane In Vitro Not mutagenic
n-Hexane 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
Butanone In Vitro Not mutagenic
Toluene In Vitro Not mutagenic
Toluene In vivo Not mutagenic
Cyclohexane In Vitro Not mutagenic
Cyclohexane In vivo Some positive data exist, but the data are not sufficient for classification
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene In Vitro Not mutagenic

Carcinogenicity

Name / Route / Species / Value

Acetone Not specified. Multiple animal species Not carcinogenic
n-Hexane Dermal Mouse Not carcinogenic
n-Hexane Inhalation Mouse Some positive data exist, but the data are not sufficient for classification
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

Reproductive Toxicity

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

Name / Route / Value / Species / Test result / Exposure Duration

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
Salicylic acid Ingestion Toxic to development Rat NOAEL 75 mg/kg/day during organogenesis
n-Hexane Ingestion Not classified for development Mouse NOAEL 2,200 mg/kg/day during organogenesis
n-Hexane Inhalation Not classified for development Rat NOAEL 0.7 mg/l during gestation
n-Hexane Ingestion Toxic to male reproduction Rat NOAEL 1,140 mg/kg/day 90 days
n-Hexane Inhalation Toxic to male reproduction Rat LOAEL 3.52 mg/l 128 days
Zinc Oxide Ingestion Not classified for reproduction and/or development Multiple animal species NOAEL 125 mg/kg/day pre-mating & during gestation
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
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
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion Not classified for male reproduction Rat NOAEL 54 mg/kg/day 2 generation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion Not classified for development Rat NOAEL 18 mg/kg/day 2 generation
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion Toxic to female reproduction Rat NOAEL 54 mg/kg/day 2 generation

STOT - Single Exposure

Name / Route / Target Organ(s) / Value / Species / Test result / Exposure Duration

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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
n-Hexane Inhalation central nervous system depression May cause drowsiness or dizziness Human NOAEL Not available not available
n-Hexane Inhalation respiratory irritation Some positive data exist, but the data are not sufficient for classification Rabbit NOAEL Not available 8 hours
n-Hexane Inhalation respiratory system Not classified Rat NOAEL 24.6 mg/l/8 hours
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 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 irritation Some positive data exist, but the data are not sufficient for classification Human and animal NOAEL Not available
Cyclohexane Ingestion central nervous system depression May cause drowsiness or dizziness Professional judgement NOAEL Not available
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Inhalation respiratory irritation Some positive data exist, but the data are not sufficient for classification similar health hazards NOAEL not available

STOT - 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 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 13 weeks
Acetone Ingestion skin | bone, teeth, nails, and/or hair Not classified Mouse NOAEL 11,298 mg/kg/day 13 weeks
Resin acids and rosin acids, esters with glycerol 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 NOAEL 500 mg/kg/day 3 days
n-Hexane Inhalation peripheral nervous system Causes damage to organs through prolonged or repeated exposure Human NOAEL Not available occupational exposure
n-Hexane Inhalation respiratory system Some positive data exist, but the data are not sufficient for classification Mouse LOAEL 1.76 mg/l/13 weeks
n-Hexane Inhalation liver Not classified Rat NOAEL Not available 6 months
n-Hexane Inhalation kidney and/or bladder Not classified Rat LOAEL 1.76 mg/l/6 months
n-Hexane Inhalation hematopoietic system Not classified Mouse NOAEL 35.2 mg/l/13 weeks

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n-Hexane Inhalation auditory system | immune system | eyes Not classified Human NOAEL Not available occupational exposure
n-Hexane Inhalation heart | skin | endocrine system Not classified Rat NOAEL 1.76 mg/l 6 months
n-Hexane Ingestion peripheral nervous system Some positive data exist, but the data are not sufficient for classification Rat NOAEL 1,140 mg/kg/day 90 days
n-Hexane Ingestion endocrine system | hematopoietic system | liver | immune system | kidney and/or bladder Not classified Rat NOAEL Not available 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
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 | eyes | olfactory system Causes damage to organs through prolonged or repeated exposure Human NOAEL Not available poisoning and/or abuse
Toluene Inhalation nervous system May cause 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 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
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 4 weeks
Cyclohexane Inhalation peripheral nervous system Not classified Rat NOAEL 8.6 mg/l 30 weeks
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion nervous system Some positive data exist, but the data are not sufficient for classification Rat NOAEL 54 mg/kg/day 98 days
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Ingestion endocrine system | liver | kidney and/or bladder | heart | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | immune system | muscles | eyes | respiratory system Not classified Rat NOAEL 225 mg/kg/day 28 days

Aspiration Hazard

Name / Value

n-Hexane Aspiration hazard

Toluene Aspiration hazard

Cyclohexane Aspiration hazard

Delayed health effects from exposure

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. 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.

Other Information

Exposure Levels:

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects:

Not determined.

Section 12 - Ecological Information**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.

Ecotoxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful 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 other Experimental 96 hours EC50 11,493 mg/l

Acetone 67-64-1 Crustacea other 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-butadiene polymer 9003-18-3 Data not available or insufficient for classification N/A

Resin acids and rosin acids, esters with glycerol 8050-31-5 Green Algae Estimated 72 hours No tox obs at lmt of water sol >100 mg/l

Resin acids and rosin acids, esters with glycerol 8050-31-5 Rainbow trout Estimated 96 hours No tox obs at lmt of water sol >100 mg/l

Resin acids and rosin acids, esters with glycerol 8050-31-5 Water flea Experimental 48 hours No tox obs at lmt of water sol >100 mg/l

Resin acids and rosin acids, esters with glycerol 8050-31-5 Green Algae Estimated 72 hours No tox obs at lmt of water sol >100 mg/l

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol 25085-50-1 Data not available or insufficient for classification N/A

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 110-82-7 Bacteria Experimental 24 hours IC50 97 mg/l

Cyclohexane 110-82-7 Fathead minnow Experimental 96 hours LC50 4.53 mg/l

Cyclohexane 110-82-7 Water flea Experimental 48 hours EC50 0.9 mg/l

n-Hexane 110-54-3 Fathead minnow Experimental 96 hours LC50 2.5 mg/l

n-Hexane 110-54-3 Water flea Experimental 48 hours LC50 3.9 mg/l

Butanone 78-93-3 Activated sludge Experimental 12 hours IC50 1,873 mg/l

Butanone 78-93-3 Bacteria Experimental 16 hours NOEC 1,150 mg/l

Butanone 78-93-3 Fathead minnow Experimental 96 hours LC50 2,993 mg/l

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Butanone 78-93-3 Green algae Experimental 96 hours EC50 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 EC10 1,289 mg/l
Butanone 78-93-3 Water flea Experimental 21 days NOEC 100 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 body weight
Toluene 108-88-3 Soil microbes Experimental 28 days NOEC <26 mg/kg (DryWeight)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 Water flea Experimental 24 hours EC50 0.82 mg/l
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 Zebra Fish Experimental 96 hours LC50 >47.05 mg/l

Persistence and degradability

Material / CAS Number / Test type / Duration / Study Type / Test result / Protocol

Acetone 67-64-1 Experimental Photolysis Photolytic half-life (in air) 147 days (t 1/2)

Acetone 67-64-1 Experimental Biodegradation 28 days BOD 78 % BOD/ThBOD OECD 301D - Closed bottle test

Acrylonitrile-butadiene polymer 9003-18-3 Data not available - insufficient N/A

Resin acids and rosin acids, esters with glycerol 8050-31-5 Experimental Biodegradation 28 days CO2 evolution 0 % CO2 evolution/THCO2 evolution OECD 301B - Modified Sturm or CO2

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol 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/ThBO OECD 301C - MITI test (I)

Zinc Oxide 1314-13-2 Data not available - insufficient N/A

Cyclohexane 110-82-7 Experimental Photolysis Photolytic half-life (in air) 4.14 days (t1/2) Non-standard method

Cyclohexane 110-82-7 Experimental Biodegradation 28 days BOD 77 % BOD/ThBOD OECD 301F - Manometric respirometry

n-Hexane 110-54-3 Experimental Photolysis Photolytic half-life (in air) 5.4 days (t 1/2) Non-standard method

n-Hexane 110-54-3 Experimental Bioconcentration 28 days BOD 100 % weight OECD 301C - MITI test (I)

Butanone 78-93-3 Experimental Biodegradation 28 days BOD 98 % BOD/ThBOD OECD 301D - Closed bottle test

Toluene 108-88-3 Experimental Photolysis Photolytic half-life (in air) 5.2 days (t 1/2)

Toluene 108-88-3 Experimental Biodegradation 20 days BOD 80 % BOD/ThBOD APHA Std Meth Water/Waste water

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 Experimental Biodegradation 28 days CO2 evolution <=1 % weight OECD 301B - Modified Sturm or CO2

Mobility

Please contact manufacturer for more details.

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

Resin acids and rosin acids, esters with glycerol 8050-31-5 Data not available or insufficient for classification N/A N/A N/A N/A

Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol 25085-50-1 Estimated Bioconcentration Bioaccumulation factor 7.4 Non-standard method

Salicylic acid 69-72-7 Experimental Bioconcentration Log Kow 2.26

Toluene 108-88-3 Experimental BCF - Other 72 hours Bioaccumulation factor 90

Toluene 108-88-3 Experimental Bioconcentration Log Kow 2.73

Zinc Oxide 1314-13-2 Experimental BCF - Carp 56 days Bioaccumulation factor= 217 OECD 305E -Bioaccumulation flow-through fish test

Cyclohexane 110-82-7 Experimental BCF - Carp 56 days Bioaccumulation factor 129 OECD 305E -Bioaccumulation flow-through fish test

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Butanone 78-93-3 Experimental Bioconcentration Log Kow 0.29 Non-standard method
n-Hexane 110-54-3 Estimated Bioconcentration Bioaccumulation factor 50 Estimated: Bioconcentration factor
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 Estimated BCF - Carp 42 days Bioaccumulation factor 1730 Non-standard method
Heptane 142-82-5 Estimated Bioconcentration Bioaccumulation factor 105 Estimated: Bioconcentration factor

Other Adverse Effects

No information available.

Section 13 - Disposal Considerations

Waste Disposal

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

Incinerate in a permitted waste incineration facility.

Section 14 - Transport Information

UN Number

1866

Proper Shipping Name

RESIN SOLUTION

Transport Hazard Class

3

Packing Group

II

Hazchem Code

•3YE

IERG Number

14

IATA UN Number

1866

IATA Proper Shipping Name

RESIN SOLUTION

IATA Transport Hazard Class

3

IATA Packing Group

II

IMDG UN Number

1866

IMDG Proper Shipping Name

RESIN SOLUTION

IMDG Transport Hazard Class

3

IMDG Packing Group

II

Additional Information

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

UN No.: UN1866

Proper shipping name: RESIN SOLUTION

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Special Instructions: Limited quantity may apply

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Hazchem Code: -3YE
IERG: 14

International Air Transport Association (IATA) - Air Transport:

UN No.: UN1866
Proper shipping name: RESIN SOLUTION
Class/Division: 3
Sub Risk: Not applicable.
Packing Group: II

International Maritime Dangerous Goods Code (IMDG)- Marine Transport:

UN No.: UN1866
Proper shipping name: RESIN SOLUTION
Class/Division: 3
Sub Risk: Not applicable.
Packing Group: II
Marine Pollutant: Not applicable.
Special Instructions: Limited quantity may apply

Section 15 - Regulatory Information

Regulatory Information

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

Australian Inventory Status:

The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

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.

Poisons Schedule

N/A

Section 16 - Any Other Relevant Information

Revisions Made

Revision information:
Complete document review.

User Codes

User Title Label	User Codes
Wis Numbers	03777301

Other Information

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

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