

Safety Data Sheet

© 2022, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	10-2796-0	Version number:	1.00
Issue Date:	29/04/2022	Supersedes date:	Initial issue.

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

3M[™] Neoprene Rubber and Gasket Adhesive 2141

Product Identification Numbers 62-2141-6530-0

1.2. Recommended use and restrictions on use

Recommended use

Rubber and gasket adhesive.

For Industrial or Professional use only

1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

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

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2 Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Irritation: Category 2 Skin Sensitizer: Category 1A. Carcinogenicity: Category 2 Reproductive Toxicity: Category 1B Specific Target Organ Toxicity (repeated exposure): Category 1 Specific Target Organ Toxicity (single exposure): Category 3 Chronic Aquatic Toxicity: Category 2

2.2. Label elements SIGNAL WORD Danger

Symbols:

Flame |Exclamation mark |Health Hazard |Environment |

Pictograms



HAZARD	STATEMENTS:

Highly flammable liquid and vapour.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
Suspected of causing cancer.	
May damage fertility or the unborn child.	
May cause drowsiness or dizziness.	
Causes damage to organs through prolonged or repeated exposure: nervous system sensory organs.	
Toxic to aquatic life with long lasting effects.	

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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280F	Wear 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.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.
P391	Collect spillage.
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.
Disposal	
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Toluene	108-88-3	30 - 40
C10-13-iso-Alkanes	64741-84-0	10 - 25
Acetone	67-64-1	10 - 20
Magnesium Resinate	68037-42-3	10 - 20
Polychloroprene	9010-98-4	10 - 20
Hexane	110-54-3	5 - 15
Heptane	142-82-5	1 - 7
Cyclohexane	110-82-7	< 5
Glycerol Esters of Rosin Acids	8050-31-5	1 - 5
2-Methylpentane	107-83-5	< 3
3-Methylpentane	96-14-0	< 3
Ethylbenzene	100-41-4	< 1
p-Tert-Butylphenol	98-54-4	< 1
Rosin	8050-09-7	< 1
Styrenated Phenol	61788-44-1	< 1
Xylene	1330-20-7	< 1
Zinc oxide	1314-13-2	< 1

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.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

If swallowed

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

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

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

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.

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

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

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.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. 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

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal carcinogen.
Ethylbenzene	100-41-4	New Zealand WES	TWA(8 hours):434 mg/m3(100 ppm);STEL(15 minutes):543 mg/m3(125 ppm)	
2-Methylpentane	107-83-5	ACGIH	TWA:500 ppm;STEL:1000 ppm	
Hexane (isomers other than n- hexane)	107-83-5	New Zealand WES	TWA(8 hours): 1760 mg/m3 (500 ppm); STEL(15 minutes): 3500 mg/m3 (1000 ppm)	
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcinogen, Ototoxicant
Toluene	108-88-3	New Zealand WES	TWA(8 hours): 188 mg/m3 (50 ppm)	Skin
Hexane	110-54-3	ACGIH	TWA:50 ppm	Danger of cutaneous

				absorption
Hexane	110-54-3	New Zealand	TWA(8 hours): 72 mg/m3 (20	
Cyclohexane	110-82-7	WES ACGIH	ppm) TWA:100 ppm	
Cyclohexane	110-82-7	New Zealand	TWA(8 hours):350 mg/m3(100	
Cyclonexane	110-02-7	WES	ppm);STEL(15 minutes):1050	
			mg/m3(300 ppm)	
Zinc oxide	1314-13-2	ACGIH	TWA(respirable fraction):2	
			mg/m3;STEL(respirable	
71	1214 12 2	NT 77 1 1	fraction):10 mg/m3	
Zinc oxide	1314-13-2	New Zealand WES	TWA(respirable)(8 hours):0.1 mg/m3;TWA(8 hours):2	
		WES	mg/m3;STEL(respirable)(15	
			minutes):0.5 mg/m3;STEL(15	
			minutes):5 mg/m3	
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm	
N/ 1	1000 00 7	N 7 1 1		carcinogin
Xylene	1330-20-7	New Zealand WES	TWA(8 hours):217 mg/m3(50 ppm)	
Heptane	142-82-5	ACGIH	TWA:400 ppm;STEL:500 ppm	
Heptane	142-82-5	New Zealand	TWA(8 hours):1640	
Tieptune	142 02 5	WES	mg/m3(400 ppm);STEL(15	
			minutes):2050 mg/m3(500	
			ppm)	
Naphtha	64741-84-0	New Zealand	TWA(8 hours):1600	
Acatana	(7, (4, 1)	WES ACGIH	mg/m3(400 ppm)	A 4. Not alaga an human
Acetone	67-64-1	ACGIH	TWA:250 ppm;STEL:500 ppm	carcinogin
Acetone	67-64-1	New Zealand	TWA(8 hours):1185	carcinogin
		WES	mg/m3(500 ppm);STEL(15	
			minutes):2375 mg/m3(1000	
D			ppm)	D 1/D
Rosin	8050-09-7	ACGIH	TWA(as Resin, inhalable	Dermal/Respiratory Sensitizer
Rosin	8050-09-7	New Zealand	fraction):0.001 mg/m3 Limit value not established:	Dermal sensitiser,
Rosin	0050 07 7	WES	Ellint value not established.	Respiratory sensitiser
3-Methylpentane	96-14-0	ACGIH	TWA:500 ppm;STEL:1000	in jan and
			ppm	
Hexane (isomers other than n-	96-14-0	New Zealand	TWA(8 hours): 1760 mg/m3	
hexane)		WES	(500 ppm); STEL(15	
			minutes): 3500 mg/m3 (1000 ppm)	
ACGIH · American Conference of Govern	mental Industrial	Hygienists	Рып)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards.

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

ppm: parts per million

mg/m³: milligrams per cubic metre CEIL: Ceiling

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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

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: Polymer laminate

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

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates Organic vapor respirators may have short service life.

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Tan
Odour	Sweet Petroleum
Odour threshold	No data available.
рН	Not applicable.
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	>=56 °C [Details: Acetone]
Flash point	-26 °C [Test Method:Closed Cup] [Details:Petroleum Distillate]
Evaporation rate	>=2.5 [<i>Ref Std</i> :ETHER=1]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	1 % volume
Flammable Limits(UEL)	12.8 % volume
Vapour pressure	<=24,664.6 Pa [@ 20 °C]

Vapor Density and/or Relative Vapor Density	2 [Ref Std:AIR=1]
Density	0.86 g/ml
Relative density	0.86 [<i>Ref Std</i> :WATER=1]
Water solubility	Slight (less than 10%)
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	465 °C
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	900 - 1,500 mPa-s [@ 23 °C]
Volatile organic compounds (VOC)	No data available.
Percent volatile	No data available.
VOC less H2O & exempt solvents	<=600 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]
Molecular weight	No data available.
Solids content	20 - 45 %

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat. Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

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:

Condition

Inhalation

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

Skin contact

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): 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.

Prolonged or repeated exposure may cause target organ effects:

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

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value	
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg	
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l	
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg	
Toluene	Dermal	Rat	LD50 12,000 mg/kg	
Toluene	Inhalation- Vapor (4 hours)	Rat	LC50 30 mg/l	
Toluene	Ingestion	Rat	LD50 5,550 mg/kg	
C10-13-iso-Alkanes	Dermal	Rat	LD50 > 2,800 mg/kg	
C10-13-iso-Alkanes	Inhalation- Vapor (4 hours)	Rat	LC50 > 25.2 mg/l	
C10-13-iso-Alkanes	Ingestion	Rat	LD50 > 5,840 mg/kg	
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg	
Acetone	Inhalation-	Rat	LC50 76 mg/l	

	Vapor (4		
	hours)	D. (
Acetone	Ingestion	Rat	LD50 5,800 mg/kg
Hexane	Dermal Inhalation-	Rabbit	LD50 > 2,000 mg/kg LC50 170 mg/l
Hexane	Vapor (4	Rat	LC30 1/0 mg/1
	hours)		
Hexane	Ingestion	Rat	LD50 > 28,700 mg/kg
Polychloroprene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polychloroprene	Ingestion	Rat	LD50 > 20,000 mg/kg
Magnesium Resinate	Dermal	Kat	LD50 = 20,000 mg/kg
•			, , , , ,
Magnesium Resinate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Heptane	Dermal	Rabbit	LD50 3,000 mg/kg
Heptane	Inhalation-	Rat	LC50 103 mg/l
	Vapor (4		
Hantona	hours)	Dat	LD50 > 15,000 mc/lcc
Heptane 2-Methylpentane	Ingestion Dermal	Rat	LD50 > 15,000 mg/kg LD50 estimated to be > 5,000 mg/kg
2-Methylpentane	Inhalation- Vapor		LC50 estimated to be $> 50 \text{ mg/l}$
2-Methylpentane	Ingestion		LD50 estimated to be > 5,000 mg/kg
3-Methylpentane	Dermal		LD50 estimated to be > 5,000 mg/kg
3-Methylpentane	Inhalation-		LC50 estimated to be $> 50 \text{ mg/l}$
5 Weinyipentane	Vapor		Less estimated to be > 50 mg/1
3-Methylpentane	Ingestion		LD50 estimated to be > 5,000 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
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l
	Vapor (4		
Cyclohexane	hours) Ingestion	Rat	LD50 6,200 mg/kg
Zinc oxide	Dermal	Kai	LD50 0,200 mg/kg LD50 estimated to be $> 5,000$ mg/kg
Zinc oxide	Inhalation-	Rat	LC50 > 5.7 mg/l
	Dust/Mist (4 hours)		
Zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Rosin	Dermal	Rabbit	LD50 > 2,500 mg/kg
Rosin	Ingestion	Rat	LD50 7,600 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-	Rat	LC50 17.4 mg/l
	Vapor (4		
75.4 . 11	hours)		
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Xylene Xylene	Dermal Inhalation-	Rabbit Rat	LD50 > 4,200 mg/kg LC50 29 mg/l
Xylene	Vapor (4	Rai	LCJ0 27 IIIg/1
	hours)		
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Styrenated Phenol	Dermal	Rat	LD50 > 2,000 mg/kg
Styrenated Phenol	Ingestion	Rat	LD50 > 2,000 mg/kg
p-Tert-Butylphenol	Dermal	Rabbit	LD50 2,318 mg/kg
p-Tert-Butylphenol	Inhalation-	Rat	LC50 > 5.6 mg/l
	Dust/Mist (4 hours)		
p-Tert-Butylphenol	Ingestion	Rat	LD50 4,000 mg/kg
ATE = acute toxicity estimate	ingestion	itut	1000 H,000 HE/K5

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

	Irritant
Rabbit	Irritant
Mouse	Minimal irritation
Human	Mild irritant
and	
animal	
Human	No significant irritation
Human	Mild irritant
Professio	Mild irritant
nal	
judgemen	
t	
Professio	Mild irritant
nal	
judgemen	
t	
Rabbit	Minimal irritation
Rabbit	Mild irritant
Human	No significant irritation
and	
animal	
Rabbit	No significant irritation
Rabbit	Mild irritant
Rabbit	Mild irritant
Rabbit	No significant irritation
Rabbit	Irritant
	MouseHumanandanimalHumanHumanProfessionaljudgementProfessionaljudgementRabbitRabbitHumanandanimalRabbitRabbitRabbitRabbitRabbitRabbitRabbitRabbitRabbitRabbitRabbit

Serious Eye Damage/Irritation

Name	Species	Value
Toluene	Rabbit	Moderate irritant
C10-13-iso-Alkanes	Rabbit	Mild irritant
Acetone	Rabbit	Severe irritant
Hexane	Rabbit	Mild irritant
Polychloroprene	Professio	No significant irritation
	nal	
	judgemen	
	t	
Heptane	Professio	Moderate irritant
	nal	
	judgemen	
	t	
2-Methylpentane	Professio	Moderate irritant
	nal	
	judgemen	
3-Methylpentane	Professio	Moderate irritant
J. J. J. F. M. J.	nal	
	judgemen	
	ť	
Glycerol Esters of Rosin Acids	Rabbit	Mild irritant
Cyclohexane	Rabbit	Mild irritant
Zinc oxide	Rabbit	Mild irritant
Rosin	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
Xylene	Rabbit	Mild irritant
Styrenated Phenol	Rabbit	Mild irritant
p-Tert-Butylphenol	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value

Toluene	Guinea	Not classified
	pig	
C10-13-iso-Alkanes	Guinea	Not classified
	pig	
Hexane	Human	Not classified
Glycerol Esters of Rosin Acids	Guinea	Not classified
	pig	
Zinc oxide	Guinea	Not classified
	pig	
Rosin	Guinea	Sensitising
	pig	
Ethylbenzene	Human	Not classified
Styrenated Phenol	Mouse	Sensitising
p-Tert-Butylphenol	Human	Not classified
	and	
	animal	

Respiratory Sensitisation

Name	Species	Value
Rosin	Human	Not classified

Germ Cell Mutagenicity

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

Carcinogenicity

Name	Route	Species	Value
Toluene	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Toluene	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Toluene	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Acetone	Not specified.	Multiple animal species	Not carcinogenic
Hexane	Dermal	Mouse	Not carcinogenic
Hexane	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal	Carcinogenic.

		species	
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Xylene	Inhalation	Human	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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
C10-13-iso-Alkanes	Ingestion	Toxic to male reproduction	similar compoun ds	NOAEL not available	not available
C10-13-iso-Alkanes	Inhalation	Toxic to male reproduction	similar compoun ds	NOAEL not available	not available
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
Hexane	Ingestion	Not classified for development	Mouse	NOAEL 2,200 mg/kg/day	during organogenesis
Hexane	Inhalation	Not classified for development	Rat	NOAEL 0.7 mg/l	during gestation
Hexane	Ingestion	Toxic to male reproduction	Rat	NOAEL 1,140 mg/kg/day	90 days
Hexane	Inhalation	Toxic to male reproduction	Rat	LOAEL 3.52 mg/l	28 days
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
Zinc oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
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
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	2 generation
				mg/kg/day	
p-Tert-Butylphenol	Ingestion	Toxic to female reproduction	Rat	NOAEL 200	2 generation
				mg/kg/day	

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
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
C10-13-iso-Alkanes	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compoun ds	NOAEL not available	not available
C10-13-iso-Alkanes	Ingestion	central nervous system depression	May cause drowsiness or dizziness	similar compoun ds	NOAEL not available	not available
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Acetone			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
Hexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
Hexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL Not available	8 hours
Hexane	Inhalation	respiratory system	Not classified	Rat	NOAEL 24.6 mg/l	8 hours
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	
2-Methylpentane	Inhalation			Professio nal judgeme nt	NOAEL Not available	
2-Methylpentane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
2-Methylpentane	Inhalation	cardiac sensitization	Not classified	Dog	NOAEL Not available	
2-Methylpentane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal	NOAEL Not available	

				judgeme nt		
3-Methylpentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
3-Methylpentane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
3-Methylpentane	Inhalation	cardiac sensitization	Not classified	Dog	NOAEL Not available	
3-Methylpentane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
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	Professio nal judgeme nt	NOAEL Not available	
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Ethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
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
p-Tert-Butylphenol	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	LOAEL 5.6 mg/l	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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 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	Not classified	Rat	NOAEL 11.3	15 weeks

		and/or bladder			mg/l	
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
C10-13-iso-Alkanes	Inhalation	peripheral nervous system	May cause damage to organs though prolonged or repeated exposure	similar compoun ds	NOAEL not available	not available
Acetone	Dermal	eyes	Not classified	Guinea pig	NOAEL Not available	3 weeks
Acetone	Inhalation	hematopoietic system	Not classified	Human	NOAEL 3 mg/l	6 weeks
Acetone	Inhalation	immune system	Not classified	Human	NOAEL 1.19 mg/l	6 days
Acetone	Inhalation	kidney and/or bladder	Not classified	Guinea pig	NOAEL 119 mg/l	not available
Acetone	Inhalation	heart liver	Not classified	Rat	NOAEL 45 mg/l	8 weeks
Acetone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 900 mg/kg/day	13 weeks
Acetone	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	13 weeks
Acetone	Ingestion	liver	Not classified	Mouse	NOAEL 3,896 mg/kg/day	14 days
Acetone	Ingestion	eyes	Not classified	Rat	NOAEL 3,400 mg/kg/day	13 weeks
Acetone	Ingestion	respiratory system	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	muscles	Not classified	Rat	NOAEL 2,500 mg/kg	13 weeks
Acetone	Ingestion	skin bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Hexane	Inhalation	peripheral nervous system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Hexane	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 1.76 mg/l	13 weeks

Hexane	Inhalation	liver	Not classified	Rat	NOAEL Not available	6 months
Hexane	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.76 mg/l	6 months
Hexane	Inhalation	hematopoietic system	Not classified	Mouse	NOAEL 35.2 mg/l	13 weeks
Hexane	Inhalation	auditory system immune system eyes	Not classified	Human	NOAEL Not available	occupational exposure
Hexane	Inhalation	ation heart skin Not classified R: endocrine system		Rat	NOAEL 1.76 mg/l	6 months
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
Hexane	Ingestion	endocrine system hematopoietic system liver immune system kidney and/or bladder	Not classified	Rat	NOAEL Not available	13 weeks
Heptane	Inhalation	liver nervous system kidney and/or bladder	Not classified	Rat	NOAEL 12 mg/l	26 weeks
2-Methylpentane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 5.3 mg/l	14 weeks
2-Methylpentane	Ingestion	peripheral nervous system	Not classified	Rat	NOAEL Not available	8 weeks
2-Methylpentane			Not classified	Rat	LOAEL 2,000 mg/kg	28 days
3-Methylpentane			Not classified	Rat		14 weeks
3-Methylpentane	Ingestion	peripheral nervous system	Not classified	Rat	mg/l NOAEL Not available	8 weeks
3-Methylpentane	Ingestion	kidney and/or bladder	ey and/or Not classified Ra		LOAEL 2,000 mg/kg	28 days
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
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
Zinc oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
Zinc oxide	Ingestion endocrine system Not classif hematopoietic system kidney and/or bladder		Not classified	Other	NOAEL 500 mg/kg/day	6 months
Ethylbenzene	Inhalation	kidney and/or bladder	ney and/or Some positive data exist, but the		NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for	Mouse	NOAEL 1.1 mg/l	103 weeks

			classification			
Ethylbenzene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Not classified	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair muscles	and/or hair anin		NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart immune system respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene			Rat	LOAEL 7.8 mg/l	5 days	
Xylene	Inhalation			Multiple animal species	NOAEL Not available	
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
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

Aspiration Hazard

Name	Value
Toluene	Aspiration hazard
C10-13-iso-Alkanes	Aspiration hazard
Hexane	Aspiration hazard
Heptane	Aspiration hazard
2-Methylpentane	Aspiration hazard
3-Methylpentane	Aspiration hazard
Cyclohexane	Aspiration hazard
Ethylbenzene	Aspiration hazard
Xylene	Aspiration hazard

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

SECTION 12: Ecological information

The information below may not 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

Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2 (HSNO 9.1D Aquatic toxicity) Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

Ecotoxic to terrestrial vertebrates

9.3C Terrestrial vertebrate toxicity

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Toluene	108-88-3	Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
Toluene	108-88-3	Grass Shrimp	Experimental	96 hours	LC50	9.5 mg/l
Toluene	108-88-3	Green Algae	Experimental	72 hours	EC50	12.5 mg/l
Toluene	108-88-3	Leopard frog	Experimental	9 days	LC50	0.39 mg/l
Toluene	108-88-3	Pink Salmon	Experimental	96 hours	LC50	6.41 mg/l
Toluene	108-88-3	Water flea	Experimental	48 hours	EC50	3.78 mg/l
Toluene	108-88-3	Coho Salmon	Experimental	40 days	NOEC	1.39 mg/l
Toluene	108-88-3	Diatom	Experimental	72 hours	NOEC	10 mg/l
Toluene	108-88-3	Water flea	Experimental	7 days	NOEC	0.74 mg/l
Toluene	108-88-3	Activated sludge	Experimental	12 hours	IC50	292 mg/l
Toluene	108-88-3	Bacteria	Experimental	16 hours	NOEC	29 mg/l
Toluene	108-88-3	Bacteria	Experimental	24 hours	EC50	84 mg/l
Toluene	108-88-3	Redworm	Experimental	28 days	LC50	>150 mg per kg of bodyweight
Toluene	108-88-3	Soil microbes	Experimental	28 days	NOEC	<26 mg/kg (Dry Weight)
C10-13-iso- Alkanes	64741-84-0	Green Algae	Estimated	72 hours	EC50	30 mg/l
C10-13-iso- Alkanes	64741-84-0	Rainbow trout	Estimated	96 hours	LL50	11.4 mg/l
C10-13-iso- Alkanes	64741-84-0	Water flea	Estimated	48 hours	EL50	3 mg/l
C10-13-iso- Alkanes	64741-84-0	Green Algae	Estimated	72 hours	NOEL	3 mg/l
C10-13-iso- Alkanes	64741-84-0	Water flea	Estimated	21 days	NOEL	1 mg/l
Acetone	67-64-1	Algae other	Experimental	96 hours	EC50	11,493 mg/l
Acetone	67-64-1	Crustecea 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
Magnesium	68037-42-3		Data not	40 110013		n/a
Resinate	00007 12 5		available or			11/ W
			insufficient for			
			classification			
Polychloropren	9010-98-4		Data not			N/A
e			available or			
			insufficient for			
			classification			
Hexane	110-54-3	Fathead	Experimental	96 hours	LC50	2.5 mg/l
		minnow				
Hexane	110-54-3	Water flea	Experimental	48 hours	LC50	3.9 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
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
Glycerol Esters	8050-31-5	Green Algae	Estimated	72 hours	No tox obs at	>100 mg/l
of Rosin Acids					lmt of water sol	
Glycerol Esters	8050-31-5	Rainbow trout	Estimated	96 hours	No tox obs at	>100 mg/l
of Rosin Acids					Imt of water sol	
5	8050-31-5	Water flea	Experimental	48 hours	No tox obs at	>100 mg/l
of Rosin Acids					lmt of water sol	
5	8050-31-5	Green Algae	Estimated	72 hours	No tox obs at	>100 mg/l
of Rosin Acids		_			lmt of water sol	
2-	107-83-5		Data not			N/A
Methylpentane			available or			
			insufficient for			
3-	96-14-0		classification Data not	1		N/A
	90-14-0		available or			N/A
Methylpentane			insufficient for			
			classification			
Ethylbenzene	100-41-4	Activated	Experimental	49 hours	EC50	130 mg/l
Ethyloenzene		sludge	Experimental	19 nouis	Leso	150 mg/1
Ethylbenzene	100-41-4	Atlantic	Experimental	96 hours	LC50	5.1 mg/l
5		Silverside	1			5
Ethylbenzene	100-41-4	Green Algae	Experimental	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l
Ethylbenzene	100-41-4	Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	48 hours	EC50	1.8 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	7 days	NOEC	0.96 mg/l
p-Tert-	98-54-4	Ciliated	Experimental	60 hours	IC50	18.4 mg/l
Butylphenol		protozoa				
p-Tert-	98-54-4	Crustecea other	Experimental	96 hours	LC50	1.9 mg/l
Butylphenol						
p-Tert-	98-54-4	Green Algae	Experimental	72 hours	EC50	14 mg/l
Butylphenol						
p-Tert-	98-54-4	Medaka	Experimental	96 hours	LC50	5.1 mg/l
Butylphenol						
p-Tert-	98-54-4	Water flea	Experimental	48 hours	EC50	3.9 mg/l
Butylphenol						

p-Tert-	98-54-4	Fathead	Experimental	128 days	NOEC	0.01 mg/l
Butylphenol		minnow	P			
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
Rosin	8050-09-7	Bacteria	Experimental		EC50	76.1 mg/l
Rosin	8050-09-7	Green Algae	Experimental	72 hours	EL50	>100 mg/l
Rosin	8050-09-7	Water flea	Experimental	48 hours	EL50	911 mg/l
Rosin	8050-09-7	Zebra Fish	Experimental	96 hours	LL50	>1 mg/l
Rosin	8050-09-7	Green Algae	Experimental	72 hours	NOEL	100 mg/l
Styrenated Phenol	61788-44-1	Activated sludge	Experimental	3 hours	EC50	362 mg/l
Styrenated Phenol	61788-44-1	Green algae	Experimental	72 hours	EC50	1.35 mg/l
Styrenated Phenol	61788-44-1	Medaka	Experimental	96 hours	LC50	5.6 mg/l
Styrenated Phenol	61788-44-1	Water flea	Experimental	48 hours	EC50	4.6 mg/l
Styrenated Phenol	61788-44-1	Green Algae	Experimental	72 hours	NOEC	0.42 mg/l
Styrenated Phenol	61788-44-1	Water flea	Experimental	21 days	NOEC	0.2 mg/l
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
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

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Toluene	108-88-3	Experimental		Photolytic half-	5.2 days (t 1/2)	
		Photolysis		life (in air)		
Toluene	108-88-3	Experimental	20 days	BOD	80 %	APHA Std Meth
		Biodegradation			BOD/ThOD	Water/Wastewater
C10-13-iso-	64741-84-0	Estimated	28 days	BOD	98 %	OECD 301F -
Alkanes		Biodegradation	-		BOD/ThOD	Manometric
						respirometry
Acetone	67-64-1	Experimental		Photolytic half-	147 days (t 1/2)	
		Photolysis		life (in air)		
Acetone	67-64-1	Experimental	28 days	BOD	78 %	OECD 301D - Closed
		Biodegradation			BOD/ThOD	bottle test

Magnesium Resinate	68037-42-3	Data not availbl-	N/A	N/A	N/A	N/A
		insufficient				
Polychloropren e	9010-98-4	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Hexane	110-54-3	Experimental Photolysis		Photolytic half- life (in air)	5.4 days (t 1/2)	Non-standard method
Hexane	110-54-3	Experimental Bioconcentrati on	28 days	BOD	100 % weight	OECD 301C - MITI test (I)
Heptane	142-82-5	Experimental Photolysis		Photolytic half- life (in air)	4.24 days (t 1/2)	Non-standard method
Heptane	142-82-5	Experimental Biodegradation	28 days	BOD	101 % BOD/ThOD	OECD 301C - MITI test (I)
Cyclohexane	110-82-7	Experimental Photolysis		Photolytic half- life (in air)	1/2)	Non-standard method
Cyclohexane	110-82-7	Experimental Biodegradation	28 days	BOD	77 % BOD/ThOD	OECD 301F - Manometric respirometry
Glycerol Esters of Rosin Acids		Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
2- Methylpentane	107-83-5	Experimental Photolysis		Photolytic half- life (in air)	5.4 days (t 1/2)	Non-standard method
2- Methylpentane	107-83-5	Experimental Biodegradation	28 days	BOD	93 % BOD/ThOD	OECD 301C - MITI test (I)
3- Methylpentane	96-14-0	Experimental Photolysis		Photolytic half- life (in air)	5.3 days (t 1/2)	Non-standard method
3- Methylpentane	96-14-0	Estimated Biodegradation	28 days	BOD	93 % BOD/ThOD	OECD 301C - MITI test (I)
Ethylbenzene	100-41-4	Experimental Photolysis		Photolytic half- life (in air)	1/2)	Non-standard method
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	CO2 evolution	70-80 %CO2 evolution/THC O2 evolution	ISO 14593 Inorg C Headspace
p-Tert- Butylphenol	98-54-4	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	98 % weight	Non-standard method
Rosin	8050-09-7	Experimental Biodegradation	28 days	CO2 evolution	64 % weight	OECD 301B - Modified sturm or CO2
Styrenated Phenol	61788-44-1	Experimental Biodegradation	28 days	BOD	7 % BOD/ThOD	OECD 301F - Manometric respirometry
Xylene	1330-20-7	Experimental Photolysis		Photolytic half- life (in air)	1.4 days (t 1/2)	
Xylene	1330-20-7	Experimental Biodegradation	28 days	BOD	90-98 % BOD/ThOD	OECD 301F - Manometric respirometry
Zinc oxide	1314-13-2	Data not availbl- insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulatio n factor	90	
Toluene	108-88-3	Experimental Bioconcentrati on		Log Kow	2.73	
C10-13-iso- Alkanes	64741-84-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acetone	67-64-1	Experimental BCF - Other		Bioaccumulatio n factor	0.65	
Acetone	67-64-1	Experimental Bioconcentrati on		Log Kow	-0.24	
Magnesium Resinate	68037-42-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polychloropren e	9010-98-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hexane	110-54-3	Estimated Bioconcentrati on		Bioaccumulatio n factor	50	Estimated: Bioconcentration factor
Heptane	142-82-5	Estimated Bioconcentrati on		Bioaccumulatio n factor	105	Estimated: Bioconcentration factor
Cyclohexane	110-82-7	Experimental BCF - Carp	56 days	Bioaccumulatio n factor	129	OECD 305E - Bioaccumulation flow- through fish test
Glycerol Esters of Rosin Acids	8050-31-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2- Methylpentane	107-83-5	Estimated Bioconcentrati on		Bioaccumulatio n factor	63	Non-standard method
3- Methylpentane	96-14-0	Estimated Bioconcentrati on		Bioaccumulatio n factor	150	Estimated: Bioconcentration factor
Ethylbenzene	100-41-4	Experimental BCF - Salmon	42 days	Bioaccumulatio n factor	1	Non-standard method
p-Tert- Butylphenol	98-54-4	Experimental BCF - Carp	56 days	Bioaccumulatio n factor	88	OECD 305E - Bioaccumulation flow- through fish test
Rosin	8050-09-7	Estimated BCF - Rainbow Trout	20 days	Bioaccumulatio n factor	129	Non-standard method
Styrenated Phenol	61788-44-1	Experimental BCF - Rainbow Trout	10 days	Bioaccumulatio n factor	10395	

Xylene	1330-20-7	Experimental BCF - Rainbow Trout	5	Bioaccumulatio n factor	25.9	
Zinc oxide	1314-13-2	Experimental BCF - Carp	5	Bioaccumulatio n factor		OECD 305E - Bioaccumulation flow- through fish test

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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - 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

International Maritime Dangerous Goods Code (IMDG) - Marine Transport UN No.: UN1133 Proper Shipping Name: ADHESIVES Class/Division: 3 Sub Risk: Not applicable. Packing Group: II Marine Pollutant: Not applicable. Special Instructions:Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval number HSR002669

Group standard nameSurface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020HSNO Hazard classificationRefer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

2017					
Certified handler	Not required				
Location Compliance Certificate	100 L (closed containers greater than 5 L) 250 L (closed containers up to and including 5 L) 50 L (open containers)				
Hazardous atmosphere zone	100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)				
Fire extinguishers	Two required for 250 L				
Emergency response plan	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances)				
Secondary containment	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances)				
Tracking	Not required				
Warning signage	100 L (for Hazardous to the aquatic environment Category 1 substances); or 250 L (for all other substances)				

SECTION 16: Other information

Revision information:

Initial issue.

Document group:	10-2796-0	Version number:	1.00
Issue Date:	29/04/2022	Supersedes date:	Initial issue.

Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz