

Safety Data Sheet

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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

3MTM Black Super Weatherstrip and Gasket Adhesive, 08008, 08008B, 08581

Product Identification Numbers

60-4550-5560-2

1.2. Recommended use and restrictions on use

Recommended use

Automotive., 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 Liquids: Category 2 Skin irritation: Category 2 Eye irritation: Category 2 Skin sensitisation: Category 1 Carcinogenicity: Category 2 Reproductive Toxicity: Category 1

Specific target organ toxicity - repeated exposure: Category 1

Specific target organ toxicity – single exposure: Category 3 narcotic effects

Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements SIGNAL WORD

Danger

Symbols:

Flame | Exclamation mark | Health Hazard | Environment |

Pictograms









HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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

H372 Causes damage to organs through prolonged or repeated exposure: nervous system.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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.

P280K Wear protective gloves and respiratory protection.

Response

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

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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
Naphtha (petroleum), solvent-refined light	64741-84-0	15 - 40
Hexane	110-54-3	7 - 30
Butanone	78-93-3	10 - 30
Polychloroprene	9010-98-4	10 - 30
Phenolic Polymer	Trade Secret	10 - 30
Heptane	142-82-5	1 - 10
Methylcyclopentane	96-37-7	1 - 10
Toluene	108-88-3	< 10
Magnesium oxide	1309-48-4	3 - 7
2-Methylpentane	107-83-5	1 - 5
3-Methylpentane	96-14-0	1 - 5
Cyclohexane	110-82-7	< 5
Zinc oxide	1314-13-2	< 2
Carbon black	1333-86-4	< 1
Ethylbenzene	100-41-4	< 1
Methyl isobutyl ketone	108-10-1	< 1
Styrenated phenol	61788-44-1	< 0.5
O-xylene	95-47-6	< 0.3
p-Tert-Butylphenol	98-54-4	< 0.2

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.

Eve 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.

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

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. 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 Ethylbenzene	CAS Nbr 100-41-4	Agency ACGIH	Limit type TWA:20 ppm	Additional comments A3: Confirmed animal carcin., Ototoxicant
Ethylbenzene	100-41-4	New Zealand WES	TWA(8 hours):88 mg/m3(20 ppm);STEL(15 minutes):176 mg/m3(40 ppm)	Skin
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)	
Methyl isobutyl ketone	108-10-1	ACGIH	TWA:20 ppm;STEL:75 ppm	A3: Confirmed animal carcinogen.
Methyl isobutyl ketone	108-10-1	New Zealand WES	TWA(8 hours): 205 mg/m3 (50 ppm); STEL(15 minutes): 307 mg/m3 (75 ppm)	- C
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcinogen, Ototoxicant
Toluene	108-88-3	New Zealand	TWA(8 hours):75 mg/m3(20	Skin

		WES	ppm);STEL(15 minutes):377	
Hexane	110-54-3	ACGIH	mg/m3(100 ppm) TWA:50 ppm	Danger of cutaneous absorption
Hexane	110-54-3	New Zealand WES	TWA(8 hours): 72 mg/m3 (20 ppm)	aosorption
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	
Cyclohexane	110-82-7	New Zealand WES	TWA(8 hours):350 mg/m3(100 ppm);STEL(15 minutes):1050 mg/m3(300 ppm)	
Magnesium oxide	1309-48-4	ACGIH	TWA(inhalable fraction):10 mg/m3	A4: Not class. as human carcinogin
Magnesium oxide	1309-48-4	New Zealand WES	TWA(as fume)(8 hours):10 mg/m3	
Zinc oxide	1314-13-2	ACGIH	TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3	
Zinc oxide	1314-13-2	New Zealand WES	TWA(respirable)(8 hours):0.1 mg/m3;TWA(8 hours):2 mg/m3;STEL(respirable)(15 minutes):0.5 mg/m3;STEL(15 minutes):5 mg/m3	
Carbon black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcinogen.
Carbon black	1333-86-4	New Zealand WES	TWA(8 hours): 3 mg/m3	Suspected human carcinogen.
Heptane	142-82-5	ACGIH	TWA:400 ppm;STEL:500 ppm	C
Heptane	142-82-5	New Zealand WES	TWA(8 hours):1640 mg/m3(400 ppm);STEL(15 minutes):2050 mg/m3(500 ppm)	
Naphtha	64741-84-0	New Zealand WES	TWA(8 hours):1600 mg/m3(400 ppm)	
Butanone	78-93-3	ACGIH	TWA:200 ppm;STEL:300 ppm	
Butanone	78-93-3	New Zealand WES	TWA(8 hours): 445 mg/m3 (150 ppm); STEL(15 minutes): 890 mg/m3 (300 ppm)	
Benzene, dimethyl-	95-47-6	ACGIH	TWA:20 ppm;STEL:150 ppm	A4: Not class. as human carcinogin
O-xylene	95-47-6	ACGIH	TWA:20 ppm	A4: Not class. as human carcinogin
O-xylene	95-47-6	New Zealand WES	TWA(8 hours):217 mg/m3(50 ppm)	- unomogin
3-Methylpentane	96-14-0	ACGIH	TWA:500 ppm;STEL:1000 ppm	
Hexane (isomers other than n-hexane)	96-14-0	New Zealand WES	TWA(8 hours): 1760 mg/m3 (500 ppm); STEL(15 minutes): 3500 mg/m3 (1000 ppm)	
ACGIH: American Conference of Govern	mental 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:

Safety glasses with side shields.

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

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

Information on basic physical and chemical properties			
Physical state	Liquid.		
Colour	Black		
Odour	Solvent		
Odour threshold	No data available.		
pH	Not applicable.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	64.4 - 87.2 °C		

Flash point	-21.1 °C [Test Method: Tagliabue closed cup]		
Evaporation rate	>=3.6 [<i>Ref Std</i> :ETHER=1]		
Flammability (solid, gas)	Not applicable.		
Flammable Limits(LEL)	1 % volume		
Flammable Limits(UEL)	11.5 % volume		
Vapour pressure	15,998.6 Pa [@ 20 ℃]		
Vapor Density and/or Relative Vapor Density	3 [Ref Std:AIR=1]		
Density	0.9 g/ml		
Relative density	0.9 [Ref Std:WATER=1]		
Water solubility	Slight (less than 10%)		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	7,500 - 9,500 mPa-s		
Volatile organic compounds (VOC)	64.4 % weight [Test Method:calculated per CARB title 2]		
Percent volatile	64.4 % weight		
VOC less H2O & exempt solvents	579.7 g/l [Test Method:calculated SCAQMD rule 443.1]		

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

SubstanceConditionCarbon monoxide.Not specified.Carbon dioxide.Not specified.Toxic vapour, gas, particulate.Not specified.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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

Skin contact

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
Naphtha (petroleum), solvent-refined light	Dermal	Rat	LD50 > 2,800 mg/kg
Naphtha (petroleum), solvent-refined light	Inhalation- Vapor (4 hours)	Rat	LC50 > 25.2 mg/l
Naphtha (petroleum), solvent-refined light	Ingestion	Rat	LD50 > 5,840 mg/kg
Butanone	Dermal	Rabbit	LD50 > 8,050 mg/kg
Butanone	Inhalation- Vapor (4	Rat	LC50 34.5 mg/l

	hours)	1	
Butanone	Ingestion	Rat	LD50 2,737 mg/kg
Hexane	Dermal	Rabbit	LD50 2,757 llig/kg LD50 > 2,000 mg/kg
Hexane	Inhalation-	Rat	LC50 170 mg/l
Tiexane	Vapor (4	Kat	LC30 170 Hig/1
	hours)		
Hexane	Ingestion	Rat	LD50 > 28,700 mg/kg
Phenolic Polymer	Dermal	Tut	LD50 estimated to be 2,000 - 5,000 mg/kg
-			
Phenolic Polymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Polychloroprene	Dermal		LD50 estimated to be > 5,000 mg/kg
			, , ,
Polychloroprene	Ingestion	Rat	LD50 > 20,000 mg/kg
Heptane	Dermal	Rabbit	LD50 3,000 mg/kg
Heptane	Inhalation-	Rat	LC50 103 mg/l
	Vapor (4		
	hours)	_	
Heptane	Ingestion	Rat	LD50 > 15,000 mg/kg
Methylcyclopentane	Dermal		LD50 estimated to be > 5,000 mg/kg
Methylcyclopentane	Ingestion	Rat	LD50 > 5,000 mg/kg
Toluene	Dermal	Rat	LD50 12,000 mg/kg
Toluene	Inhalation-	Rat	LC50 30 mg/l
	Vapor (4		
	hours)		
Toluene	Ingestion	Rat	LD50 5,550 mg/kg
2-Methylpentane	Dermal	1440	LD50 estimated to be > 5,000 mg/kg
2-Methylpentane	Inhalation-		LC50 estimated to be > 50 mg/l
	Vapor		
2-Methylpentane	Ingestion		LD50 estimated to be > 5,000 mg/kg
3-Methylpentane	Dermal		LD50 estimated to be > 5,000 mg/kg
7 1			
3-Methylpentane	Inhalation-		LC50 estimated to be > 50 mg/l
	Vapor		
3-Methylpentane	Ingestion		LD50 estimated to be > 5,000 mg/kg
Magnesium oxide	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg
inagneoram omac	D C T T T T T T T T T T T T T T T T T T	nal	2200 0000000000000000000000000000000000
		judgeme	
		nt	
Magnesium oxide	Ingestion	Rat	LD50 3,870 mg/kg
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l
	Vapor (4		3
	hours)		
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
Zinc oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
		D :	
Zinc oxide	Inhalation-	Rat	LC50 > 5.7 mg/l
	Dust/Mist		
7:	(4 hours)	D-1	LD50 > 5 000/l-
Zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-	Rat	LC50 17.4 mg/l
	Vapor (4		
Td II	hours)	D.	LD50 47(0 //
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Methyl isobutyl ketone	Dermal	Rabbit	LD50 > 16,000 mg/kg
Methyl isobutyl ketone	Inhalation-	Rat	LC50 11 mg/l
	Vapor (4		
	hours)		XD50 2000 #
Methyl isobutyl ketone	Ingestion	Rat	LD50 3,038 mg/kg
Styrenated phenol	Dermal	Rat	LD50 > 2,000 mg/kg
Styrenated phenol	Ingestion	Rat	LD50 > 2,000 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
O-xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
	Y 1 1 C	D-4	LC50 29 mg/l
O-xylene	Inhalation-	Rat	LC30 29 mg/1

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	Vapor (4 hours)		
O-xylene	Ingestion	Rat	LD50 3,523 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

Skin Corrosion/Irritation

Name	Species	Value
Naphtha (petroleum), solvent-refined light	Rabbit	Irritant
Butanone	Rabbit	Minimal irritation
Hexane	Human	Mild irritant
	and	
	animal	
Polychloroprene	Human	No significant irritation
Heptane	Human	Mild irritant
Methylcyclopentane	similar	Minimal irritation
	compoun	
	ds	
Toluene	Rabbit	Irritant
2-Methylpentane	Professio	Mild irritant
	nal	
	judgemen	
	t	
3-Methylpentane	Professio	Mild irritant
	nal	
	judgemen	
	t	
Magnesium oxide	Professio	No significant irritation
	nal	
	judgemen	
Coolshaman	t Rabbit	Mild irritant
Cyclohexane Zinc oxide	Human	No significant irritation
Zific oxide	and	No significant irritation
	animal	
Ethylbenzene	Rabbit	Mild irritant
Methyl isobutyl ketone	Rabbit	Mild irritant Mild irritant
Styrenated phenol Carbon black	Rabbit	No significant irritation
	Rabbit	No significant irritation
O-xylene	Rabbit	Mild irritant
p-Tert-Butylphenol	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Naphtha (petroleum), solvent-refined light	Rabbit	Mild irritant
Butanone	Rabbit	Severe irritant
Hexane	Rabbit	Mild irritant
Polychloroprene	Professio	No significant irritation
	nal	
	judgemen	
	t	
Heptane	Professio	Moderate irritant
	nal	
	judgemen	
	t	
Methylcyclopentane	similar	Mild irritant
	compoun	
	ds	
Toluene	Rabbit	Moderate irritant

2-Methylpentane	Professio	Moderate irritant
	nal	
	judgemen	
	t	
3-Methylpentane	Professio	Moderate irritant
	nal	
	judgemen	
	t	
Cyclohexane	Rabbit	Mild irritant
Zinc oxide	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
Methyl isobutyl ketone	Rabbit	Mild irritant
Styrenated phenol	Rabbit	Mild irritant
Carbon black	Rabbit	No significant irritation
O-xylene	Rabbit	Mild irritant
p-Tert-Butylphenol	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Naphtha (petroleum), solvent-refined light	Guinea pig	Not classified
Hexane	Human	Not classified
Toluene	Guinea	Not classified
	pig	
Zinc oxide	Guinea	Not classified
	pig	
Ethylbenzene	Human	Not classified
Methyl isobutyl ketone	Guinea	Not classified
	pig	
Styrenated phenol	Mouse	Sensitising
p-Tert-Butylphenol	Human	Not classified
	and	
	animal	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value		
Butanone	In Vitro	Not mutagenic		
Hexane	In Vitro	Not mutagenic		
Hexane	In vivo	Not mutagenic		
Heptane	In Vitro	Not mutagenic		
Toluene	In Vitro	Not mutagenic		
Toluene	In vivo	Not mutagenic		
Magnesium oxide	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		
Methyl isobutyl ketone	In Vitro	Not mutagenic		
Carbon black	In Vitro	Not mutagenic		
Carbon black	In vivo	Some positive data exist, but the data are not		

		sufficient for classification
O-xylene	In Vitro	Not mutagenic
O-xylene	In vivo	Not mutagenic
p-Tert-Butylphenol	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Butanone	Inhalation	Human	Not carcinogenic
Hexane	Dermal	Mouse	Not carcinogenic
Hexane	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
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
Magnesium oxide	Not specified.	Human and animal	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic.
Methyl isobutyl ketone	Inhalation	Multiple animal species	Carcinogenic.
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.
O-xylene	Dermal	Rat	Not carcinogenic
O-xylene	Ingestion	Multiple animal species	Not carcinogenic
O-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
Naphtha (petroleum), solvent-refined light	Ingestion	Toxic to male reproduction	similar compoun ds	NOAEL not available	not available
Naphtha (petroleum), solvent-refined light	Inhalation	Toxic to male reproduction	similar compoun ds	NOAEL not available	not available
Butanone	Inhalation	Not classified for development	Rat	LOAEL 8.8 mg/l	during gestation
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
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

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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
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
Methyl isobutyl ketone	Inhalation	Not classified for female reproduction	Multiple animal species	NOAEL 8.2 mg/l	2 generation
Methyl isobutyl ketone	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Methyl isobutyl ketone	Inhalation	Not classified for male reproduction	Multiple animal species	NOAEL 8.2 mg/l	2 generation
Methyl isobutyl ketone	Inhalation	Not classified for development	Mouse	NOAEL 12.3 mg/l	during organogenesis
O-xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
O-xylene	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesis
O-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 mg/kg/day	2 generation
p-Tert-Butylphenol	Ingestion	Toxic to female reproduction	Rat	NOAEL 200 mg/kg/day	2 generation

Lactation

Name	Route	Species	Value
O-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
Naphtha (petroleum), solvent-refined light	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compoun ds	NOAEL not available	not available
Naphtha (petroleum), solvent-refined light	Ingestion	central nervous system depression	May cause drowsiness or dizziness	similar compoun ds	NOAEL not available	not available
Butanone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	official classifica tion	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	Professio nal judgeme	NOAEL Not available	

				nt		
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
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	
Methylcyclopentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compoun ds	NOAEL Not available	
Methylcyclopentane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Toluene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Toluene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Toluene	Inhalation	immune system	Not classified	Mouse	NOAEL 0.004 mg/l	3 hours
Toluene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
2-Methylpentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	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 judgeme nt	NOAEL Not available	
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	
Magnesium oxide	Inhalation	respiratory system	Not classified	Human	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	Human and	NOAEL Not available	

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			classification	animal		
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	
Methyl isobutyl ketone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 0.1 mg/l	2 hours
Methyl isobutyl ketone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Methyl isobutyl ketone	Inhalation	vascular system	Not classified	Dog	NOAEL Not available	not available
Methyl isobutyl ketone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 900 mg/kg	not applicable
O-xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
O-xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
O-xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
O-xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
O-xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
O-xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
O-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
Naphtha (petroleum), solvent-refined light	Inhalation	peripheral nervous system	May cause damage to organs though prolonged or repeated exposure	similar compoun ds	NOAEL not available	not available
Butanone	Dermal	nervous system	Not classified	Guinea pig	NOAEL Not available	31 weeks
Butanone	Inhalation	liver kidney and/or bladder heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Butanone	Ingestion	liver	Not classified	Rat	NOAEL Not available	7 days
Butanone	Ingestion	nervous system	Not classified	Rat	NOAEL 173 mg/kg/day	90 days
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	Mouse	LOAEL 1.76	13 weeks

			data are not sufficient for classification		mg/l	
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	heart skin endocrine system	Not classified	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
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 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
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	Ingestion	kidney and/or	Not classified	Rat	LOAEL	28 days

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		bladder			2,000 mg/kg	
3-Methylpentane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 5.3 mg/l	14 weeks
3-Methylpentane	Ingestion	peripheral nervous system	Not classified	Rat	NOAEL Not available	8 weeks
3-Methylpentane	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 2,000 mg/kg	28 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 hematopoietic system kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	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	Not classified	Multiple animal species	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
Methyl isobutyl ketone	Inhalation	liver	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Methyl isobutyl ketone	Inhalation	heart	Not classified	Multiple animal species	NOAEL 0.8 mg/l	2 weeks
Methyl isobutyl ketone	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 0.4 mg/l	90 days
Methyl isobutyl ketone	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 4.1 mg/l	14 weeks
Methyl isobutyl ketone	Inhalation	endocrine system hematopoietic system	Not classified	Multiple animal species	NOAEL 0.41 mg/l	90 days
Methyl isobutyl ketone	Inhalation	nervous system	Not classified	Multiple animal species	NOAEL 0.41 mg/l	13 weeks
Methyl isobutyl ketone	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Methyl isobutyl ketone	Ingestion	heart immune	Not classified	Rat	NOAEL	120 days

		system muscles nervous system respiratory system			1,040 mg/kg/day	
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
O-xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
O-xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
O-xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
O-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
O-xylene	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
O-xylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
O-xylene	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
O-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
Naphtha (petroleum), solvent-refined light	Aspiration hazard
Hexane	Aspiration hazard
Heptane	Aspiration hazard
Methylcyclopentane	Aspiration hazard
Toluene	Aspiration hazard
2-Methylpentane	Aspiration hazard
3-Methylpentane	Aspiration hazard
Cyclohexane	Aspiration hazard
Ethylbenzene	Aspiration hazard
Methyl isobutyl ketone	Some positive data exist, but the data are not sufficient for
	classification
O-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)

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Naphtha (petroleum), solvent-refined	64741-84-0	Green algae	Estimated	72 hours	EC50	30 mg/l
light						
Naphtha (petroleum), solvent-refined light	64741-84-0	Rainbow trout	Estimated	96 hours	LL50	11.4 mg/l
Naphtha (petroleum), solvent-refined light	64741-84-0	Water flea	Estimated	48 hours	EL50	3 mg/l
Naphtha (petroleum), solvent-refined light	64741-84-0	Green algae	Estimated	72 hours	NOEL	3 mg/l
Naphtha (petroleum), solvent-refined light	64741-84-0	Water flea	Estimated	21 days	NOEL	1 mg/l
Hexane	110-54-3	Fathead minnow	Experimental	96 hours	LC50	2.5 mg/l
Hexane	110-54-3	Water flea	Experimental	48 hours	LC50	3.9 mg/l
Butanone	78-93-3	Fathead minnow	Experimental	96 hours	LC50	2,993 mg/l
Butanone	78-93-3	Green algae	Experimental	96 hours	ErC50	2,029 mg/l
Butanone	78-93-3	Water flea	Experimental	48 hours	EC50	308 mg/l
Butanone	78-93-3	Green algae	Experimental	96 hours	ErC10	1,289 mg/l
Butanone	78-93-3	Water flea	Experimental	21 days	NOEC	100 mg/l
Butanone	78-93-3	Bacteria	Experimental	16 hours	LOEC	1,150 mg/l
Phenolic Polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	n/a
Polychloropren e		N/A	Data not available or insufficient for classification	N/A	N/A	N/A
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
Methylcyclope ntane	96-37-7	N/A	Data not available or	N/A	N/A	N/A

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			insufficient for			
			classification			
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)
Magnesium oxide	1309-48-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2- Methylpentane	107-83-5	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
3- Methylpentane	96-14-0	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
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
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
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	EC50	>=100 mg/l
Carbon black	1333-86-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Ethylbenzene	100-41-4	Activated sludge	Experimental	49 hours	EC50	130 mg/l
Ethylbenzene	100-41-4	Atlantic Silverside	Experimental	96 hours	LC50	5.1 mg/l
Ethylbenzene	100-41-4	Green algae	Experimental	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l

Ethylbenzene	100-41-4	Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	48 hours	EC50	1.8 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	7 days	NOEC	0.96 mg/l
Methyl isobutyl		Green algae	Experimental	96 hours	EC50	400 mg/l
ketone	108-10-1	Green argae	Experimental	90 Hours	EC30	400 Hig/1
Methyl isobutyl	100 10 1	Water flea	Experimental	48 hours	EC50	>200 mg/l
ketone	100-10-1	w ater riea	Experimental	46 1100115	LC30	200 Hig/I
Methyl isobutyl	100 10 1	Zebra Fish	Experimental	96 hours	LC50	>179 mg/l
ketone	100-10-1	Zeora Pisii	Experimental	90 Hours	LC30	-1/9 llig/1
Methyl isobutyl	108-10-1	Fathead	Experimental	32 days	NOEC	56.2 mg/l
ketone	100-10-1	minnow	Experimental	32 days	NOEC	30.2 mg/1
Methyl isobutyl	108-10-1	Water flea	Experimental	21 days	NOEC	78 mg/l
ketone	100-10-1	w ater riea	Experimental	21 days	NOEC	/8 mg/1
Methyl isobutyl	100 10 1	Activated	Experimental	30 minutes	EC50	>1,000
ketone	100-10-1	sludge	Experimental	30 minutes	LC30	71,000
Styrenated	61788-44-1	Activated	Experimental	3 hours	EC50	362 mg/l
phenol	01/88-44-1	sludge	Experimental	3 Hours	LC30	302 mg/1
Styrenated	61788-44-1	Green algae	Experimental	72 hours	EC50	1.35 mg/l
phenol	01/88-44-1	Green argae	Experimental	/2 Hours	LC30	1.33 Hig/1
Styrenated	61788-44-1	Medaka	Experimental	96 hours	LC50	5.6 mg/l
phenol	01/00-44-1	ivicuaka	Experimental	90 Hours	LC30	3.0 mg/1
Styrenated	61788-44-1	Water flea	Experimental	48 hours	EC50	4.6 mg/l
phenol	01/88-44-1	w ater riea	Experimental	46 1100115	LC30	4.0 mg/1
Styrenated	61788-44-1	Green algae	Experimental	72 hours	NOEC	0.42 mg/l
phenol	01/00-44-1	Green argae	Experimental	72 Hours	NOLC	0.42 mg/1
Styrenated	61788-44-1	Water flea	Experimental	21 days	NOEC	0.2 mg/l
phenol	01700-44-1	vv ater rica	Experimental	21 days	NOLC	0.2 mg/1
O-xylene	95-47-6	Activated	Estimated	3 hours	NOEC	157 mg/l
O Aylene]3 47 0	sludge	Estimated	3 Hours	NOLC	137 mg/1
O-xylene	95-47-6	Green algae	Experimental	73 hours	EC50	4.36 mg/l
O-xylene	95-47-6	Rainbow trout	Experimental	96 hours	LC50	2.6 mg/l
O-xylene	95-47-6	Water flea	Experimental	24 hours	IC50	1 mg/l
O-xylene	95-47-6	Green algae	Experimental	73 hours	NOEC	0.44 mg/l
O-xylene	95-47-6	Rainbow trout	Experimental	56 days	NOEC	>1.3 mg/l
O-xylene	95-47-6	Water flea	Experimental	7 days	NOEC	1.17 mg/l
p-Tert-	98-54-4	Ciliated	Experimental	60 hours	IC50	18.4 mg/l
Butylphenol	70-34-4	protozoa	Experimental	oo nours	1030	10.4 mg/1
p-Tert-	98-54-4	Green algae	Experimental	72 hours	ErC50	14 mg/l
Butylphenol	70-34-4	Green argae	Experimental	72 1100113	LICSO	14 mg/1
p-Tert-	98-54-4	Invertebrate	Experimental	96 hours	LC50	1.9 mg/l
Butylphenol	70-34-4	Invertebrate	Experimental	70 Hours	LC30	1.9 mg/1
p-Tert-	98-54-4	Medaka	Experimental	96 hours	LC50	5.1 mg/l
Butylphenol	70-34-4	Wicdaka	Experimental	70 Hours	LC30	3.1 mg/1
p-Tert-	98-54-4	Water flea	Experimental	48 hours	EC50	3.9 mg/l
Butylphenol	70 34 4	vv ater riea	Experimentar	40 nours	Leso	3.7 mg/1
p-Tert-	98-54-4	Fathead	Experimental	128 days	NOEC	0.01 mg/l
Butylphenol	JU-J4-4	minnow	Lybermiental	120 days	INOEC	0.01 mg/1
p-Tert-	98-54-4	Green algae	Experimental	72 hours	NOEC	0.32 mg/l
Butylphenol		Green argae	Lapermientai	/2 1100115	TOEC	0.52 mg/1
p-Tert-	98-54-4	Water flea	Experimental	21 days	NOEC	0.73 mg/l
Butylphenol	JU-J4-4	vv atci ilea	Lybermiental	21 days	INOEC	0.75 mg/1
Dutyiphenoi	l			1		

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Naphtha (petroleum), solvent-refined light	64741-84-0	Estimated Biodegradation	28 days	BOD	98 %BOD/ThO D	OECD 301F - Manometric respirometry
Hexane	110-54-3	Experimental Bioconcentrati on	28 days	BOD	100 %BOD/Th OD	OECD 301C - MITI test (I)
Hexane	110-54-3	Experimental Photolysis		Photolytic half- life (in air)		
Butanone	78-93-3	Experimental Biodegradation	28 days	BOD	98 %BOD/ThO D	OECD 301D - Closed bottle test
Phenolic Polymer	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polychloropren e	9010-98-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Heptane	142-82-5	Experimental Biodegradation	28 days	BOD	101 %BOD/Th OD	OECD 301C - MITI test (I)
Heptane	142-82-5	Experimental Photolysis		Photolytic half- life (in air)	4.24 days (t 1/2)	
Methylcyclope ntane	96-37-7	Experimental Biodegradation	28 days	BOD	2 %BOD/ThO D	OECD 301C - MITI test (I)
Methylcyclope ntane	96-37-7	Estimated Photolysis		Photolytic half- life (in air)	1/2)	
Toluene	108-88-3	Experimental Biodegradation	20 days	BOD	D	APHA Std Meth Water/Wastewater
Toluene	108-88-3	Experimental Photolysis		Photolytic half- life (in air)	5.2 days (t 1/2)	
Magnesium oxide	1309-48-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2- Methylpentane	107-83-5	Experimental Biodegradation	28 days	BOD	93 %BOD/ThO D	OECD 301C - MITI test (I)
2- Methylpentane	107-83-5	Experimental Photolysis		life (in air)	5.4 days (t 1/2)	
3- Methylpentane	96-14-0	Estimated Biodegradation	28 days	BOD	D	OECD 301C - MITI test (I)
3- Methylpentane	96-14-0	Experimental Photolysis		life (in air)		
Cyclohexane	110-82-7	Experimental Biodegradation	28 days	BOD	77 %BOD/ThO D	OECD 301F - Manometric respirometry
Cyclohexane	110-82-7	Experimental Photolysis		Photolytic half- life (in air)	4.1 days (t 1/2)	
Zinc oxide	1314-13-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	CO2 evolution	70-80 %CO2 evolution/THC	ISO 14593 Inorg C Headspace

					O2 evolution	
Ethylbenzene	100-41-4	Experimental Photolysis		Photolytic half- life (in air)	4.26 days (t 1/2)	
Methyl isobutyl ketone	108-10-1	Experimental Biodegradation	28 days	BOD	83 %BOD/ThO D	OECD 301F - Manometric respirometry
Methyl isobutyl ketone	108-10-1	Experimental Photolysis		Photolytic half- life (in air)	2.3 days (t 1/2)	
Styrenated phenol	61788-44-1	Experimental Biodegradation	28 days	BOD	7 %BOD/ThO D	OECD 301F - Manometric respirometry
O-xylene	95-47-6	Estimated Biodegradation	,	BOD	98 %BOD/ThO D	OECD 301F - Manometric respirometry
p-Tert- Butylphenol	98-54-4	Experimental Biodegradation		Dissolv. Organic Carbon Deplet		EC C.4.A. DOC Die- Away Test

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Naphtha (petroleum), solvent-refined light	64741-84-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hexane	110-54-3	Modeled Bioconcentrati on		Bioaccumulatio n factor	50	Catalogic™
Butanone	78-93-3	Experimental Bioconcentrati on		Log Kow	0.3	OECD 117 log Kow HPLC method
Phenolic Polymer	Trade Secret	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
Heptane	142-82-5	Estimated Bioconcentrati on		Bioaccumulatio n factor	105	
Methylcyclope ntane	96-37-7	Experimental Bioconcentrati on		Log Kow	3.37	
Toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulatio n factor	90	
Toluene	108-88-3	Experimental Bioconcentrati on		Log Kow	2.73	
Magnesium oxide	1309-48-4	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	
3- Methylpentane	96-14-0	Estimated Bioconcentrati on		Bioaccumulatio n factor	150	
Cyclohexane	110-82-7	Experimental BCF - Fish	56 days	Bioaccumulatio n factor	129	OECD305- Bioconcentration
Cyclohexane	110-82-7	Experimental Bioconcentrati on		Log Kow	3.44	
Zinc oxide	1314-13-2	Experimental BCF - Fish	56 days	Bioaccumulatio n factor	<u>≤</u> 217	OECD305- Bioconcentration
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	Experimental BCF - Fish	42 days	Bioaccumulatio n factor	1	
Methyl isobutyl ketone	108-10-1	Experimental Bioconcentrati on		Log Kow	1.9	OECD 117 log Kow HPLC method
Styrenated phenol	61788-44-1	Experimental BCF - Fish	10 days	Bioaccumulatio n factor	10395	
O-xylene	95-47-6	Experimental Bioconcentrati on		Log Kow	3.12	
p-Tert- Butylphenol	98-54-4	Experimental BCF - Fish	56 days	Bioaccumulatio n factor		OECD305- Bioconcentration
p-Tert- Butylphenol	98-54-4	Experimental Bioconcentrati on		Log Kow	3	OECD 117 log Kow HPLC method

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate uncured product in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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 ann

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 name Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020

HSNO Hazard classification Refer 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

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:

Complete document review.

Document group:	08-0531-7	Version number:	5.00
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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

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